



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PRU1-STD-LED35-SO-04-SAL-NU.IES

DESCRIPTION INFORMATION (From Photometric File)

IES:LM-63-2019
[TEST] 80150237-3
[TESTLAB] CSA Group
[ISSUE DATE] 12/1/2022
[MANUFAC] Prudential Lighting
[LUMCAT] Pru1-STD-LED35-SO-04-SAL-NU
[LUMINAIRE] LED Luminaire
[BALLASTCAT] OSRAM OPTOTRONIC OTi30/120-277/1A0 DIM-1L-G2
[OTHER] THE CANDELA VALUES ARE ABOSOLUTE AND SHOULD NOT BE FACTORED
[MORE] FOR DIFFERENT LAMP RATINGS
[AMBIENT] 26.0Â°C
[INPUT] 120.10VAC, 60Hz, 0.24A, 27.87W, 0.9856PF, 7.62%ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	27.87
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.10 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17279	15648	15585
55	15706	14161	14927
65	13898	12791	13980
75	11520	11691	13361
85	7984	11530	13534

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	740.99	740.99	740.99	740.99	740.99	740.99	740.99	740.99	740.99	740.99
2.5	742.74	742.99	743.24	742.13	741.20	741.33	739.93	738.90	739.06	739.50
5.0	739.48	739.43	739.81	738.91	737.99	738.15	736.53	735.80	736.00	736.19
7.5	733.72	734.02	734.25	733.32	732.49	732.82	731.53	730.61	731.10	731.56
10.0	725.95	725.76	726.30	725.58	724.85	725.23	724.15	723.59	724.13	724.87
12.5	715.55	715.77	716.40	715.47	714.97	715.47	714.53	714.44	715.34	716.37
15.0	704.23	704.06	704.60	703.79	703.42	704.13	703.36	703.46	704.62	705.91
17.5	690.81	690.51	691.43	690.67	690.32	691.14	690.68	691.03	692.42	693.89
20.0	675.24	675.27	676.10	675.57	675.48	676.59	676.17	676.91	678.62	680.28
22.5	657.34	657.90	658.97	658.26	658.72	660.17	660.16	661.28	663.45	665.27
25.0	636.08	636.84	638.79	638.20	639.47	641.56	642.49	644.09	646.63	649.03
27.5	613.23	614.29	616.12	615.80	617.66	620.27	622.49	625.35	628.47	631.33
30.0	589.69	590.67	592.34	591.88	594.40	597.27	600.38	604.45	608.88	612.37
32.5	565.14	566.20	567.93	567.61	570.39	573.33	576.92	581.69	587.27	591.65
35.0	540.11	541.02	542.89	542.86	545.86	549.05	552.82	557.87	563.62	569.51
37.5	529.02	522.44	524.53	524.63	527.95	525.32	528.36	533.68	539.60	546.20
40.0	516.41	517.61	519.76	519.93	523.58	527.88	533.17	531.93	526.27	529.56
42.5	488.14	489.18	491.35	492.32	495.85	500.52	506.04	512.85	519.76	527.06
45.0	457.88	458.76	461.13	463.11	467.70	472.77	478.70	485.66	492.91	501.06
47.5	428.38	428.82	430.53	433.06	438.23	444.43	451.39	458.30	465.94	474.87
50.0	398.64	398.94	400.43	403.52	408.27	415.05	423.43	431.10	438.95	448.39
52.5	368.55	368.99	370.49	374.18	379.12	386.00	394.76	403.43	412.20	422.10
55.0	338.68	339.11	340.98	344.90	350.21	357.58	366.10	375.67	385.62	395.95
57.5	309.03	309.54	311.33	315.50	321.38	329.35	338.24	348.14	359.29	370.16
60.0	279.81	280.23	282.47	286.54	293.16	301.47	311.01	321.24	332.92	344.78
62.5	250.79	251.61	253.85	258.29	265.37	274.30	284.33	294.91	306.95	319.62
65.0	221.98	223.39	225.79	230.73	238.41	247.67	258.07	269.47	281.72	294.84
67.5	193.98	195.61	198.34	203.78	211.98	221.49	232.77	245.01	257.72	270.55
70.0	166.54	168.40	171.52	177.52	186.56	196.84	208.62	221.17	234.17	247.30
72.5	139.89	141.89	145.65	152.36	162.10	173.23	185.62	198.20	211.77	225.19
75.0	114.01	116.11	120.89	128.44	138.94	150.57	163.38	176.90	190.43	203.88
77.5	89.72	91.53	97.39	105.96	116.97	129.52	142.67	156.58	170.36	183.71
80.0	66.64	68.93	75.60	85.32	97.16	110.05	123.79	137.46	151.24	164.89
82.5	45.94	48.53	56.28	66.74	79.20	92.33	106.27	119.97	133.66	146.97
85.0	28.10	31.14	39.63	50.82	63.22	76.53	90.16	103.94	117.42	130.27
87.5	13.68	17.44	26.38	37.51	49.53	62.71	75.83	89.13	102.32	114.85
90.0	4.14	8.72	16.77	26.68	38.40	50.48	63.16	75.68	88.32	100.51
92.5	2.83	4.42	10.21	18.69	28.79	39.98	51.96	63.89	75.69	87.37
95.0	2.48	2.93	6.12	12.65	21.23	31.35	42.11	53.42	64.61	75.27
97.5	2.14	2.09	3.79	8.42	15.57	24.35	34.05	44.16	54.54	64.73
100.0	0.00	0.00	2.40	5.53	11.12	18.49	27.03	36.08	45.50	54.96
102.5	0.00	0.00	0.00	3.59	7.90	13.83	21.13	29.27	37.76	46.30
105.0	0.00	0.00	0.00	2.51	5.40	10.26	16.34	23.49	30.87	38.66
107.5	0.00	0.00	0.00	0.00	3.73	7.42	12.49	18.41	24.93	31.75
110.0	0.00	0.00	0.00	0.00	2.70	5.12	9.24	14.22	19.95	25.85
112.5	0.00	0.00	0.00	0.00	2.10	3.58	6.59	10.74	15.60	20.76
115.0	0.00	0.00	0.00	0.00	0.00	2.70	4.78	7.92	11.89	16.34
117.5	0.00	0.00	0.00	0.00	0.00	2.16	3.41	5.68	8.78	12.50
120.0	0.00	0.00	0.00	0.00	0.00	0.00	2.61	4.13	6.38	9.34
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.15	4.58	6.72
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	3.52	4.91
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	3.73
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13

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135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	740.99	740.99	740.99	740.99	740.99	740.99	740.99	740.99	740.99
2.5	739.11	738.52	738.47	738.64	738.65	738.42	738.96	739.49	739.67
5.0	736.24	735.86	735.67	735.91	736.07	736.11	736.43	736.85	737.53
7.5	731.59	731.54	731.56	731.83	731.79	732.04	732.45	732.98	733.35
10.0	725.16	725.21	725.41	725.79	726.04	726.38	726.99	727.57	727.64
12.5	716.67	717.05	717.47	718.24	718.67	718.96	719.91	720.15	720.67
15.0	706.61	707.47	708.17	709.01	709.82	710.31	711.06	711.85	712.49
17.5	694.93	696.04	697.25	698.33	699.28	699.98	701.03	701.74	702.50
20.0	681.48	683.05	684.62	686.12	687.44	688.29	689.75	690.49	691.00
22.5	666.88	668.70	670.74	672.74	674.04	675.39	676.78	677.81	678.56
25.0	650.98	653.18	655.51	657.84	659.70	661.35	662.79	663.86	664.27
27.5	633.67	636.34	638.91	641.56	643.66	645.85	647.52	648.72	649.28
30.0	615.27	618.32	621.38	624.42	626.83	629.12	631.15	632.33	633.09
32.5	595.75	599.35	602.94	606.11	608.91	611.72	613.91	615.07	615.94
35.0	574.91	579.60	583.53	587.01	590.12	593.18	595.65	597.03	597.42
37.5	552.97	558.67	563.18	567.12	570.60	573.67	576.56	577.77	578.67
40.0	529.90	536.82	542.03	546.48	549.99	553.69	556.46	558.02	559.00
42.5	534.36	521.50	528.03	532.95	529.25	533.02	536.21	537.74	538.28
45.0	510.46	519.51	527.50	533.12	535.31	526.63	530.20	531.92	532.87
47.5	484.24	494.23	503.11	509.45	514.16	518.55	522.06	524.05	524.99
50.0	458.39	468.37	478.16	485.42	490.80	495.17	498.86	500.93	501.82
52.5	432.58	442.73	453.36	461.14	466.72	471.49	475.56	477.60	478.40
55.0	406.73	417.41	427.95	436.89	443.07	447.71	451.70	454.15	454.91
57.5	381.33	392.04	402.72	412.32	418.80	423.87	428.07	430.47	431.48
60.0	356.05	366.96	377.79	387.75	395.15	400.29	404.30	406.88	407.59
62.5	331.23	342.51	353.53	363.68	371.56	376.53	380.64	383.26	384.10
65.0	306.87	318.40	329.11	339.40	347.55	353.28	357.48	360.13	361.14
67.5	283.29	294.85	305.91	315.94	324.03	330.21	334.73	337.48	338.28
70.0	260.49	272.18	283.35	292.96	301.44	307.57	312.16	315.02	315.83
72.5	238.18	250.26	261.21	271.08	279.25	285.68	290.21	292.96	293.88
75.0	216.85	229.09	240.13	249.95	257.82	264.37	269.10	271.73	272.64
77.5	196.67	208.77	219.75	229.28	237.42	243.56	248.38	251.06	251.84
80.0	177.60	189.47	200.31	209.69	217.70	223.96	228.29	231.01	231.94

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CANDELA TABULATION - (Cont.)

82.5	159.69	171.39	181.85	191.08	198.65	204.97	209.28	211.96	212.56
85.0	142.50	154.03	164.29	173.19	180.71	186.63	190.87	193.45	194.33
87.5	126.63	137.69	147.71	156.26	163.72	169.32	173.56	175.90	176.84
90.0	111.89	122.58	132.06	140.46	147.44	153.07	156.94	159.24	160.24
92.5	98.29	108.47	117.50	125.51	132.17	137.42	141.26	143.57	144.15
95.0	85.55	95.26	103.92	111.51	118.07	123.02	126.68	128.66	129.64
97.5	74.31	83.35	91.58	98.73	104.76	109.60	113.03	115.08	115.71
100.0	63.86	72.34	80.05	86.74	92.34	96.87	100.09	102.06	102.68
102.5	54.40	62.29	69.37	75.74	81.03	85.07	88.13	89.95	90.68
105.0	46.03	53.08	59.71	65.45	70.37	74.32	77.15	78.84	79.41
107.5	38.51	45.01	51.00	56.26	60.71	64.31	66.88	68.58	68.90
110.0	31.83	37.56	42.98	47.84	52.06	55.22	57.57	59.04	59.59
112.5	25.98	31.06	36.04	40.25	44.00	46.97	49.17	50.50	51.05
115.0	20.91	25.36	29.68	33.54	36.80	39.50	41.34	42.64	42.92
117.5	16.51	20.42	24.13	27.56	30.50	32.89	34.55	35.60	35.96
120.0	12.72	16.05	19.32	22.16	24.79	26.82	28.46	29.40	29.84
122.5	9.39	12.18	14.95	17.53	19.74	21.53	22.89	23.85	23.88
125.0	6.68	9.03	11.42	13.45	15.47	16.93	18.12	18.83	19.13
127.5	4.91	6.42	8.26	9.99	11.67	12.93	13.90	14.45	14.84
130.0	3.76	4.77	5.90	7.12	8.35	9.44	10.19	10.70	10.99
132.5	2.89	3.66	4.51	5.25	6.01	6.65	7.19	7.70	7.90
135.0	0.00	2.70	3.43	3.96	4.56	4.99	5.30	5.60	5.77
137.5	0.00	0.00	2.50	2.92	3.35	3.74	3.98	4.18	4.32
140.0	0.00	0.00	0.00	2.03	2.41	2.72	2.90	3.11	3.11
142.5	0.00	0.00	0.00	0.00	0.00	0.00	2.11	2.12	2.02
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	269.33	N.A.	11.00
0-30	568.48	N.A.	23.20
0-40	925.68	N.A.	37.80
0-60	1664.12	N.A.	68.00
0-80	2165.79	N.A.	88.50
0-90	2300.39	N.A.	94.00
10-90	2230.4	N.A.	91.10
20-40	656.35	N.A.	26.80
20-50	1039.81	N.A.	42.50
40-70	1029.1	N.A.	42.10
60-80	501.67	N.A.	20.50
70-80	211.01	N.A.	8.60
80-90	134.60	N.A.	5.50
90-110	119.26	N.A.	4.90
90-120	138.25	N.A.	5.60
90-130	145.02	N.A.	5.90
90-150	146.76	N.A.	6.00
90-180	146.76	N.A.	6.00
110-180	27.50	N.A.	1.10
0-180	2447.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.99
10-20	199.34
20-30	299.15
30-40	357.20
40-50	383.46
50-60	354.98
60-70	290.66
70-80	211.01
80-90	134.60
90-100	77.92
100-110	41.34
110-120	18.99
120-130	6.77
130-140	1.62
140-150	0.12
150-160	0.00
160-170	0.00
170-180	0.00

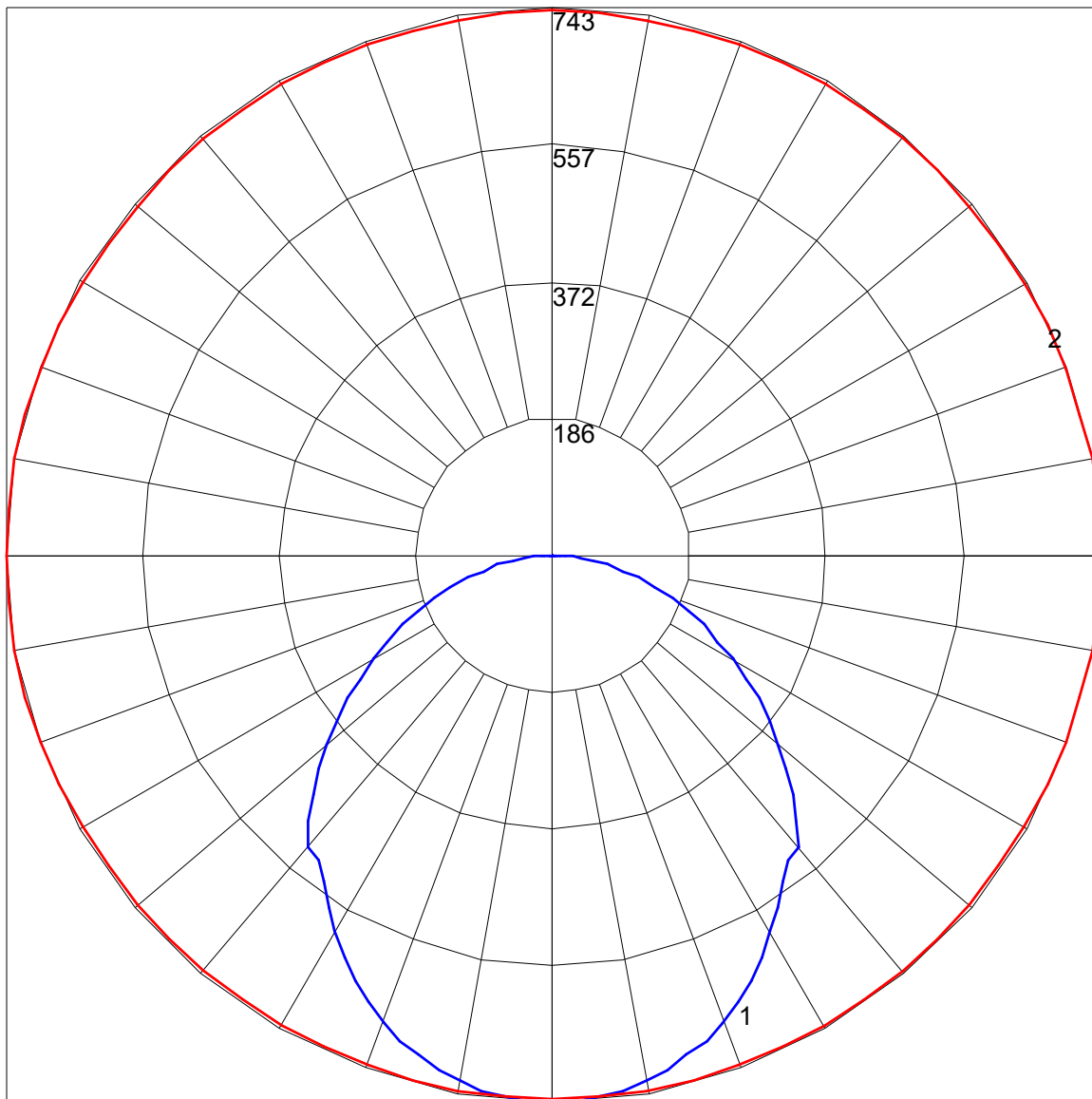
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	77	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	61
3	87	75	67	60	84	73	65	59	69	63	57	66	60	55	62	58	53	51
4	79	66	57	50	76	65	56	50	61	54	48	58	52	47	55	50	46	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	40	50	44	39	37
6	67	53	44	37	65	52	43	37	50	42	36	47	40	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	38	32	27	25
9	54	40	32	26	52	39	31	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	21

POLAR GRAPH



Maximum Candela = 743.24 Located At Horizontal Angle = 10, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)