

PRUDENTIAL

LIGHTING

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO5-REC-LED35-SO-4FT-LGP

PROJECT NUMBER

G105260754

REPORT NUMBER

105260754LAX-003

ISSUE DATE

November 11, 2022

REVISED DATE

None

TEST DATES

November 10, 2022 through November 10, 2022.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105260754LAX-003

MODEL NUMBER(s)

BPRO5-REC-LED35-SO-4FT-LGP

REPORT RENDERED TO:

PRUDENTIAL LIGHTING
1774 E 21ST STREET
LOS ANGELES, CA 90058

STATEMENT OF LIMITATION

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01185794-0.

TEST STANDARDS

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:

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SAMPLE INFORMATION

REPORT NO. 105260754LAX-003

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2210241515-001	BPRO5-REC-LED35-SO-4FT-LGP	LED Luminaire	Production	10/24/2022

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO5-REC-LED35-SO-4FT-LGP	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 105260754LAX-003

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-REC-LED35-SO-4FT-LGP
Product Description:	LED Luminaire
LED Model No.:	Lumileds 2835E 9V
Driver Model No.:	SO - Osram OTI50 - 868mAmp
Light Source:	LED

Criteria	Results
Light Output (lumens)	3722.1
Input Power (W) @ 120 (Vac)	31.88
Lumen Efficacy (lm/W)	116.8
Input Power Factor () @ 120 (Vac)	0.977

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 105260754LAX-003

Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO5-REC-LED35-SO-4FT-LGP	NA

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.01	272.2	31.88	0.977	10.4

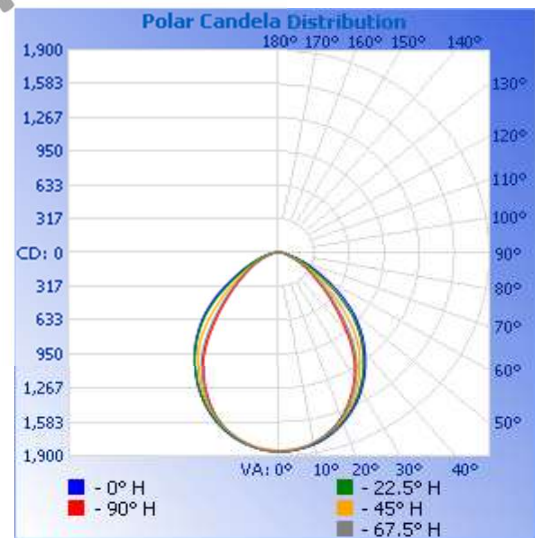
Light Output (lm)	Lumen Efficacy (lm/W)
3722.1	116.8

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	1855	1855	1855	1855	1855
5	1849	1844	1836	1845	1848
10	1820	1812	1799	1804	1804
15	1767	1756	1740	1738	1735
20	1692	1679	1656	1647	1639
25	1597	1580	1549	1525	1510
30	1483	1463	1419	1380	1360
35	1350	1328	1272	1212	1175
40	1205	1177	1106	994	940
45	1048	1012	897	766	718
50	876	824	680	574	536
55	688	609	493	422	391
60	495	438	353	307	285
65	348	314	247	216	204
70	230	216	163	146	139
75	140	138	103	96	92
80	79	83	61	60	58
85	32	41	30	27	28
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

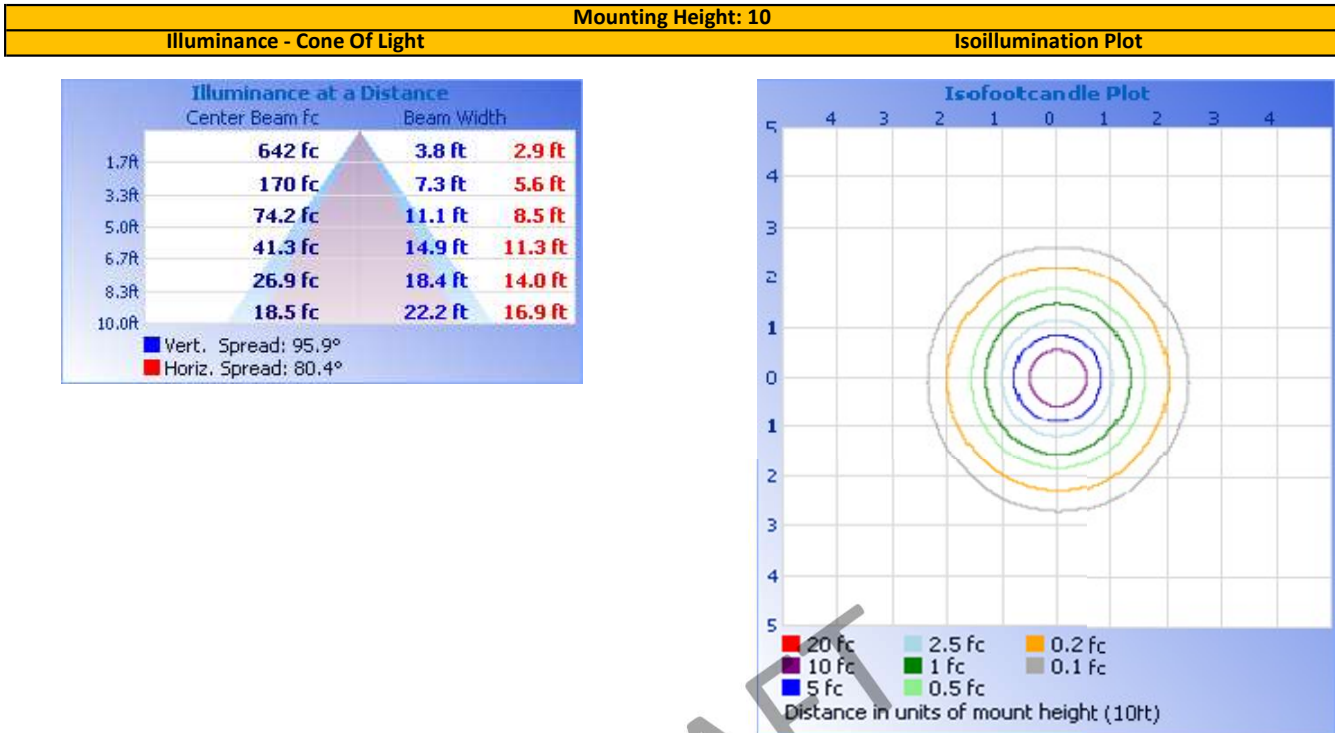
Entire luminous intensity matrix found in .IES file

Polar Candela Plot



REPORT NO. 105260754LAX-003

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	1,377.1	37.0%	90-100	0.0	0.0%
0-40	2,164.3	58.1%	100-110	0.0	0.0%
0-60	3,308.1	88.9%	110-120	0.0	0.0%
60-90	414.0	11.1%	120-130	0.0	0.0%
70-100	154.9	4.2%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	3,722.1	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	3,722.1	100.0%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.24

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	7430	4436	3244
55	5829	2609	1853
65	3807	1452	1049
75	2260	707	537
85	1053	255	192

EQUIPMENT LIST

REPORT NO. 105260754LAX-003

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	VBV	VBV
2	AC Source	CW1251P	000944	VBV	VBV
3	Power Analyzer	WT210	000945	09/20/22	09/20/23
4	Tape Measure	33-428	001491	VBV	VBV
5	Thermometer	DPi8-C24	001782	09/21/22	09/21/23
6	Protractor	2-GN9UM-300-1	1038	04/05/22	04/05/23
7	Caliper	CD-6" ASX	1447	03/11/22	03/11/23
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REVISION HISTORY

#	Revision Date	Updated By	Reviewed BY	Description of Change
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