

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1000200

Luminaire Tested: SA2XXRDIP-B865D725UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000200
REPORT IS A COMBINATION OF REPORTS P988760 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D725UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

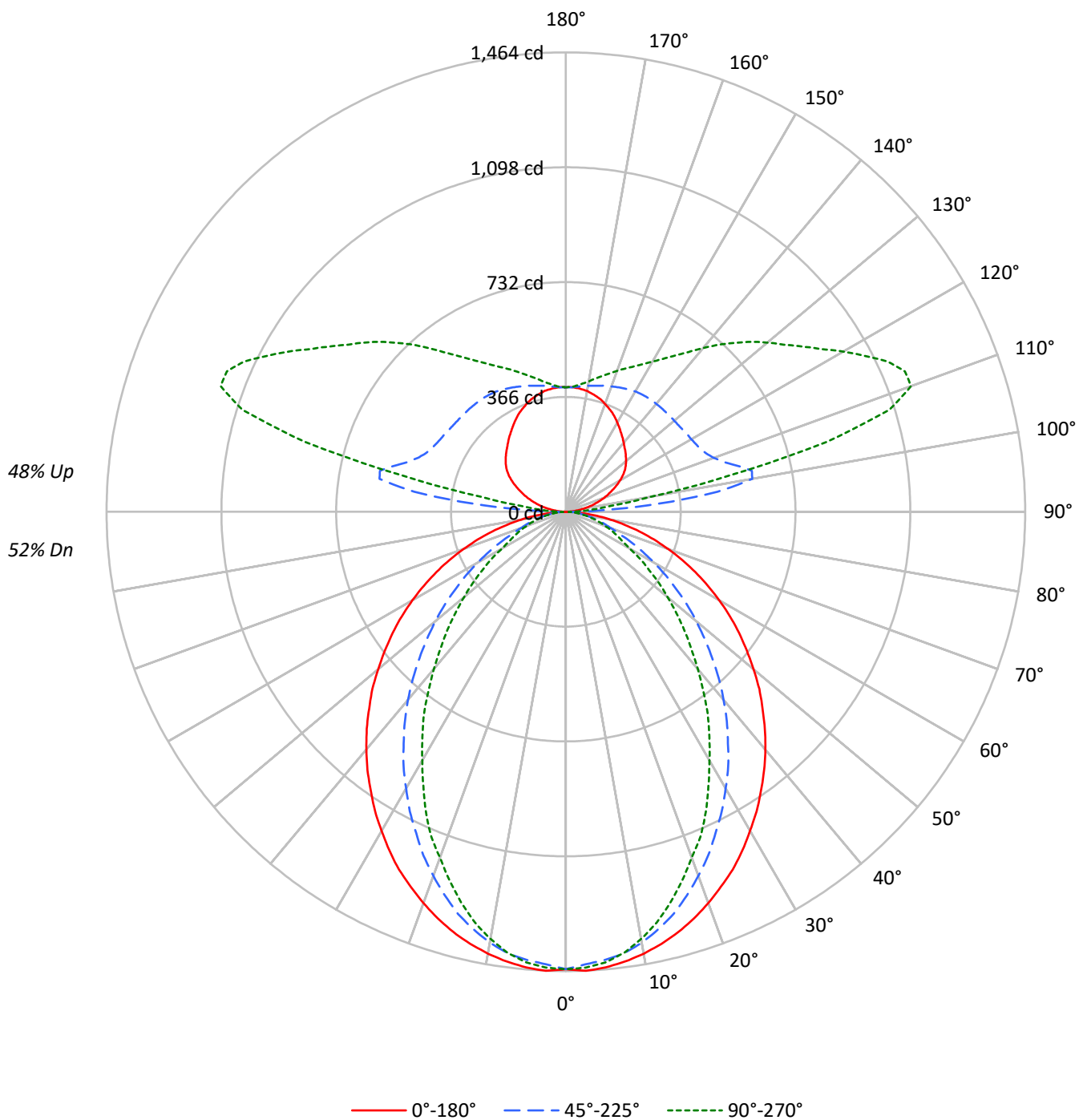
Lumens per Lamp: N/A
Luminaire Lumens: 5768.2 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	45	43
3	83	74	66	61	76	68	62	57	59	54	50	50	46	44	42	39	37
4	76	65	58	52	70	61	54	49	53	47	43	45	41	38	37	35	32
5	70	59	51	45	65	55	48	42	47	42	38	40	36	33	34	31	29
6	65	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25
7	60	48	40	35	55	45	38	33	39	33	29	34	29	26	28	25	23
8	56	44	36	31	51	41	34	29	36	30	26	31	27	23	26	23	21
9	52	40	33	28	48	37	31	26	33	27	24	28	24	21	24	21	19
10	49	37	30	25	45	34	28	24	30	25	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23074	23074	23074
5°	23112	21953	21790
10°	22884	20821	20133
15°	22570	19484	18246
20°	22154	17965	16272
25°	21727	16405	14465
30°	21155	14887	12491
35°	20594	13356	10797
40°	20025	11853	9052
45°	19361	10300	7531
50°	18676	8803	6131
55°	17962	7306	4867
60°	17133	5843	3682
65°	16179	4454	2993
70°	15028	3231	2381
75°	13577	2464	1818
80°	11481	1668	1219
85°	8009	765	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	2.4
10°-20°	375.1	6.5
20°-30°	526.6	9.1
30°-40°	574.0	10.0
40°-50°	527.5	9.1
50°-60°	414.3	7.2
60°-70°	269.7	4.7
70°-80°	138.8	2.4
80°-90°	38.0	0.7
90°-100°	160.9	2.8
100°-110°	544.0	9.4
110°-120°	571.8	9.9
120°-130°	470.2	8.2
130°-140°	377.9	6.6
140°-150°	285.5	4.9
150°-160°	200.7	3.5
160°-170°	118.2	2.0
170°-180°	38.4	0.7
0°-30°	1038.2	18.0
0°-40°	1612.2	27.9
0°-60°	2554.0	44.3
0°-90°	3000.5	52.0
90°-120°	1276.8	22.1
90°-150°	2410.4	41.8
90°-180°	2768.0	48.0
0°-180°	5768.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1451	1434	1446	1442	138
15°	1386	1372	1327	1302	1289	391
25°	1258	1216	1129	1075	1055	579
35°	1084	1017	901	818	789	679
45°	886	798	660	566	534	685
55°	674	571	429	350	324	602
65°	455	348	230	185	181	451
75°	243	150	106	96	95	257
85°	57	29	25	25	25	65
90°	1	10	26	25	25	5
95°	27	66	299	113	87	28
105°	93	140	566	1011	860	99
115°	164	207	473	977	1132	163
125°	229	271	455	791	918	204
135°	269	321	450	665	761	208
145°	307	353	447	555	608	193
155°	349	377	434	491	511	161
165°	380	392	416	441	448	107
175°	396	397	400	405	404	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1464.3	1457.7	1443.2	1456.4	1453.8
5°	1457.7	1451.1	1434.0	1445.9	1441.9
7.5°	1445.9	1437.9	1419.5	1424.7	1418.1
10°	1430.0	1420.8	1394.4	1390.4	1382.5
12.5°	1410.2	1398.4	1362.7	1354.8	1340.3
15°	1386.5	1372.0	1327.1	1302.1	1288.9
17.5°	1358.8	1337.7	1282.3	1253.2	1232.1
20°	1327.1	1300.7	1234.8	1201.8	1172.8
22.5°	1292.8	1262.5	1186.0	1141.1	1121.3
25°	1258.5	1216.3	1129.2	1075.2	1055.4
27.5°	1217.6	1172.8	1076.5	1014.5	984.1
30°	1174.1	1124.0	1018.4	951.1	915.5
32.5°	1131.9	1071.2	963.0	883.9	850.9
35°	1084.4	1017.1	901.0	817.9	788.9
37.5°	1038.2	965.7	843.0	751.9	719.0
40°	989.4	910.3	782.3	688.6	654.3
42.5°	939.3	854.8	721.6	624.0	591.0
45°	886.5	798.1	659.6	565.9	534.3
47.5°	836.4	742.7	600.2	506.6	477.6
50°	781.0	687.3	542.2	451.2	423.5
52.5°	726.9	627.9	486.8	399.7	374.7
55°	674.1	571.2	428.7	349.6	324.5
57.5°	620.0	514.5	377.3	303.4	282.3
60°	564.6	459.1	323.2	255.9	234.8
62.5°	510.5	405.0	277.0	213.7	203.2
65°	455.1	348.3	229.5	184.7	180.7
67.5°	402.4	295.5	184.7	162.3	158.3
70°	347.0	244.1	153.0	139.8	134.6
72.5°	294.2	196.6	128.0	117.4	114.8
75°	242.7	150.4	105.5	96.3	95.0
77.5°	191.3	106.9	83.1	77.8	75.2
80°	143.8	76.5	63.3	58.0	58.0
82.5°	100.3	51.4	43.5	40.9	40.9
85°	56.7	29.0	25.1	25.1	25.1
87.5°	21.1	10.6	10.6	9.2	9.2
90°	0.8	10.4	26.0	24.8	25.2
92.5°	11.5	36.3	117.6	54.2	46.6
95°	26.7	65.6	299.2	113.0	87.0
97.5°	39.7	86.6	487.8	226.7	145.8
100°	58.8	106.1	603.1	451.6	273.3
102.5°	76.3	123.7	606.9	763.4	532.8
105°	93.1	140.5	565.7	1011.1	860.3
107.5°	111.5	157.2	527.5	1100.8	1081.0
110°	129.8	174.4	501.5	1086.3	1171.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.6	190.9	484.8	1037.0	1169.5
115°	164.1	207.3	473.3	976.8	1132.1
117.5°	182.4	223.7	467.2	919.1	1075.6
120°	199.2	239.7	461.8	867.6	1021.4
122.5°	215.3	256.1	458.8	827.5	964.9
125°	229.0	271.0	455.0	791.2	918.4
127.5°	240.5	285.2	452.7	760.4	874.8
130°	250.4	297.7	451.2	729.0	839.0
132.5°	259.6	309.9	450.4	696.6	801.6
135°	268.7	320.6	449.6	664.9	761.1
137.5°	277.1	329.8	449.6	632.8	722.2
140°	287.0	338.2	448.9	604.6	681.7
142.5°	297.0	345.0	448.9	577.5	641.2
145°	306.9	352.7	447.3	555.3	607.7
147.5°	317.6	358.8	445.1	535.9	577.9
150°	328.3	364.9	442.8	519.1	551.9
152.5°	338.9	371.0	438.9	505.0	529.8
155°	348.9	376.8	434.4	491.2	510.7
157.5°	357.3	381.3	429.8	478.2	493.9
160°	365.7	385.9	425.2	465.3	477.9
162.5°	374.1	389.4	421.4	453.1	462.6
165°	380.2	391.6	416.0	441.2	448.1
167.5°	385.5	393.9	411.5	430.6	434.4
170°	390.9	395.0	407.6	420.6	422.2
172.5°	393.9	396.2	403.1	411.8	412.2
175°	396.2	396.6	400.0	405.0	403.8
177.5°	397.7	397.0	397.0	400.0	397.7
180°	397.0	397.0	397.0	397.0	397.0

(END OF REPORT)