

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: P1000206

Luminaire Tested: SA2XXRDIP-B865D725UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000206
REPORT IS A COMBINATION OF REPORTS P988766 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D725UB35-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

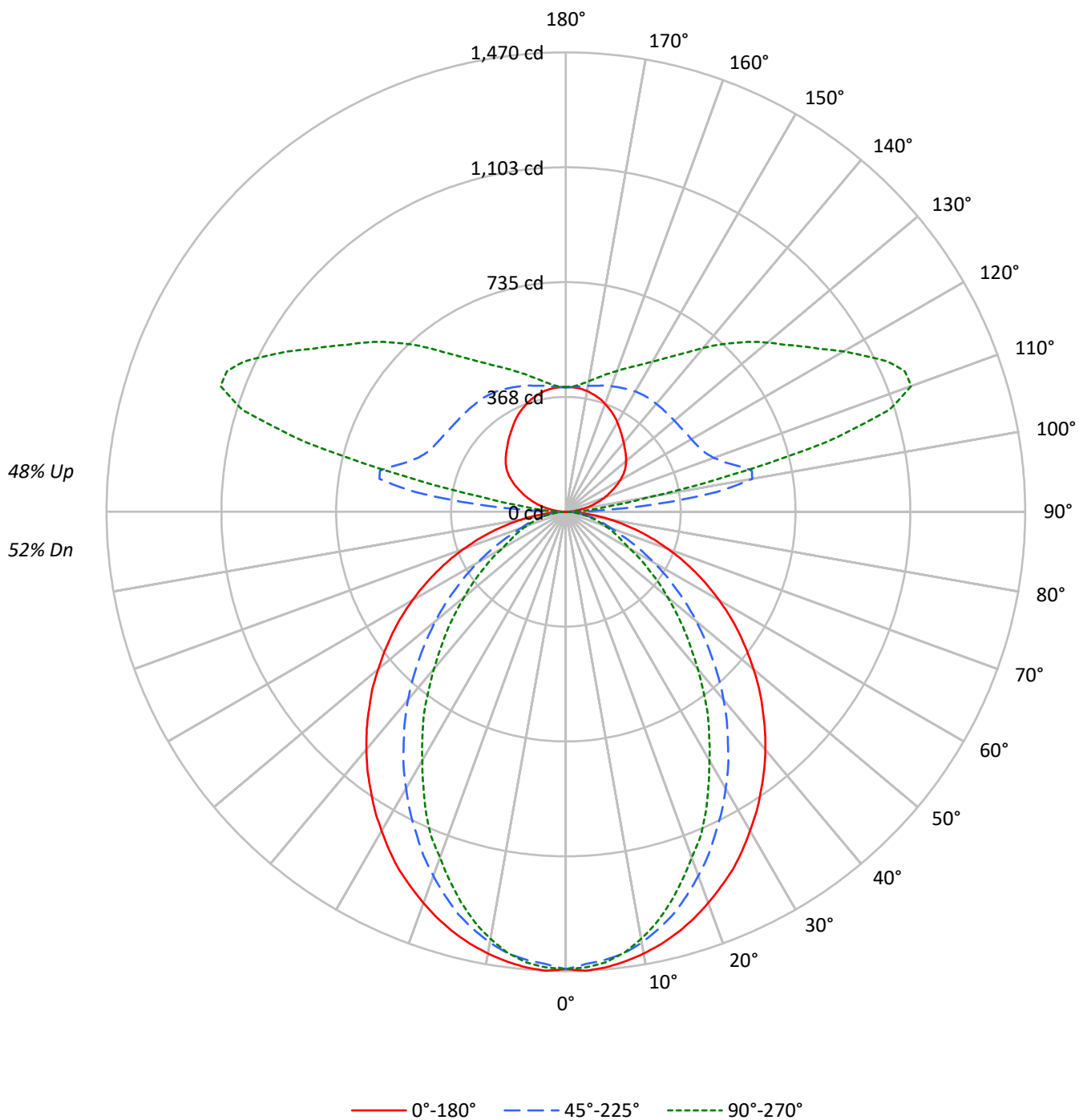
Lumens per Lamp: N/A
Luminaire Lumens: 5792.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	44	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°	23168	23168	23168
5°	23205	22040	21878
10°	22975	20905	20215
15°	22660	19562	18318
20°	22242	18036	16337
25°	21815	16472	14523
30°	21240	14947	12542
35°	20676	13409	10840
40°	20106	11900	9088
45°	19440	10340	7560
50°	18751	8839	6156
55°	18034	7337	4886
60°	17202	5867	3698
65°	16243	4474	3006
70°	15084	3244	2390
75°	13633	2476	1826
80°	11529	1676	1226
85°	8052	768	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.4
10°-20°	376.6	6.5
20°-30°	528.7	9.1
30°-40°	576.3	9.9
40°-50°	529.7	9.1
50°-60°	416.0	7.2
60°-70°	270.7	4.7
70°-80°	139.4	2.4
80°-90°	38.2	0.7
90°-100°	161.6	2.8
100°-110°	546.4	9.4
110°-120°	574.3	9.9
120°-130°	472.3	8.2
130°-140°	379.5	6.6
140°-150°	286.7	4.9
150°-160°	201.6	3.5
160°-170°	118.7	2.0
170°-180°	38.6	0.7
0°-30°	1042.4	18.0
0°-40°	1618.7	27.9
0°-60°	2564.3	44.3
0°-90°	3012.6	52.0
90°-120°	1282.3	22.1
90°-150°	2420.8	41.8
90°-180°	2780.0	48.0
0°-180°	5792.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1457	1440	1452	1448	139
15°	1392	1378	1332	1307	1294	392
25°	1264	1221	1134	1080	1060	581
35°	1089	1021	905	821	792	681
45°	890	801	662	568	536	687
55°	677	574	430	351	326	605
65°	457	350	230	185	182	453
75°	244	151	106	97	95	258
85°	57	29	25	25	25	65
90°	1	10	26	25	25	5
95°	27	66	300	113	87	28
105°	94	141	568	1015	864	99
115°	165	208	475	981	1137	163
125°	230	272	457	795	922	204
135°	270	322	452	668	764	208
145°	308	354	449	558	610	193
155°	350	378	436	493	513	161
165°	382	393	418	443	450	108
175°	398	398	402	407	406	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1470.2	1463.6	1449.0	1462.2	1459.6
5°	1463.6	1456.9	1439.7	1451.6	1447.7
7.5°	1451.6	1443.7	1425.2	1430.4	1423.8
10°	1435.7	1426.5	1400.0	1396.0	1388.1
12.5°	1415.9	1404.0	1368.2	1360.3	1345.7
15°	1392.0	1377.5	1332.4	1307.3	1294.0
17.5°	1364.2	1343.0	1287.4	1258.3	1237.1
20°	1332.4	1305.9	1239.7	1206.6	1177.5
22.5°	1298.0	1267.5	1190.7	1145.7	1125.8
25°	1263.6	1221.2	1133.8	1079.5	1059.6
27.5°	1222.5	1177.5	1080.8	1018.5	988.1
30°	1178.8	1128.5	1022.5	955.0	919.2
32.5°	1136.4	1075.5	966.9	887.4	854.3
35°	1088.7	1021.2	904.6	821.2	792.0
37.5°	1042.4	969.5	846.3	755.0	721.8
40°	993.4	913.9	785.4	691.4	656.9
42.5°	943.0	858.3	724.5	626.5	593.4
45°	890.1	801.3	662.2	568.2	536.4
47.5°	839.7	745.7	602.6	508.6	479.5
50°	784.1	690.1	544.4	453.0	425.2
52.5°	729.8	630.5	488.7	401.3	376.2
55°	676.8	573.5	430.5	351.0	325.8
57.5°	622.5	516.6	378.8	304.6	283.4
60°	566.9	460.9	324.5	257.0	235.8
62.5°	512.6	406.6	278.1	214.6	204.0
65°	456.9	349.7	230.5	185.4	181.5
67.5°	404.0	296.7	185.4	162.9	158.9
70°	348.3	245.0	153.6	140.4	135.1
72.5°	295.4	197.3	128.5	117.9	115.2
75°	243.7	151.0	106.0	96.7	95.4
77.5°	192.1	107.3	83.4	78.1	75.5
80°	144.4	76.8	63.6	58.3	58.3
82.5°	100.7	51.7	43.7	41.1	41.1
85°	57.0	29.1	25.2	25.2	25.2
87.5°	21.2	10.6	10.6	9.3	9.3
90°	0.8	10.4	26.1	24.9	25.3
92.5°	11.5	36.4	118.1	54.4	46.8
95°	26.8	65.9	300.5	113.4	87.4
97.5°	39.9	87.1	489.9	227.7	146.4
100°	59.0	106.6	605.7	453.5	274.5
102.5°	76.7	124.2	609.5	766.7	535.2
105°	93.5	141.0	568.1	1015.4	864.1
107.5°	111.9	158.0	529.8	1105.6	1085.6
110°	130.3	175.2	503.7	1091.0	1176.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.2	191.7	486.9	1041.6	1174.6
115°	164.8	208.2	475.4	981.0	1137.0
117.5°	183.2	224.6	469.2	923.1	1080.3
120°	200.1	240.8	463.9	871.4	1025.8
122.5°	216.2	257.2	460.8	831.1	969.1
125°	230.0	272.2	457.0	794.6	922.3
127.5°	241.5	286.4	454.7	763.6	878.6
130°	251.5	299.0	453.1	732.2	842.6
132.5°	260.7	311.2	452.4	699.6	805.0
135°	269.9	322.0	451.6	667.8	764.4
137.5°	278.3	331.2	451.6	635.6	725.3
140°	288.3	339.6	450.8	607.2	684.7
142.5°	298.2	346.5	450.8	580.0	644.0
145°	308.2	354.2	449.3	557.8	610.3
147.5°	318.9	360.4	447.0	538.2	580.4
150°	329.7	366.5	444.7	521.4	554.3
152.5°	340.4	372.6	440.9	507.2	532.1
155°	350.4	378.4	436.3	493.4	512.9
157.5°	358.8	383.0	431.7	480.4	496.1
160°	367.2	387.6	427.1	467.3	480.0
162.5°	375.7	391.0	423.2	455.0	464.6
165°	381.8	393.3	417.9	443.2	450.1
167.5°	387.2	395.6	413.3	432.4	436.3
170°	392.5	396.8	409.4	422.4	424.0
172.5°	395.6	397.9	404.8	413.6	414.0
175°	397.9	398.3	401.7	406.7	405.6
177.5°	399.4	398.7	398.7	401.7	399.4
180°	398.7	398.7	398.7	398.7	398.7

(END OF REPORT)