

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: P1000205

Luminaire Tested: SA2XXRDIP-B865D725UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000205
REPORT IS A COMBINATION OF REPORTS P988765 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-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

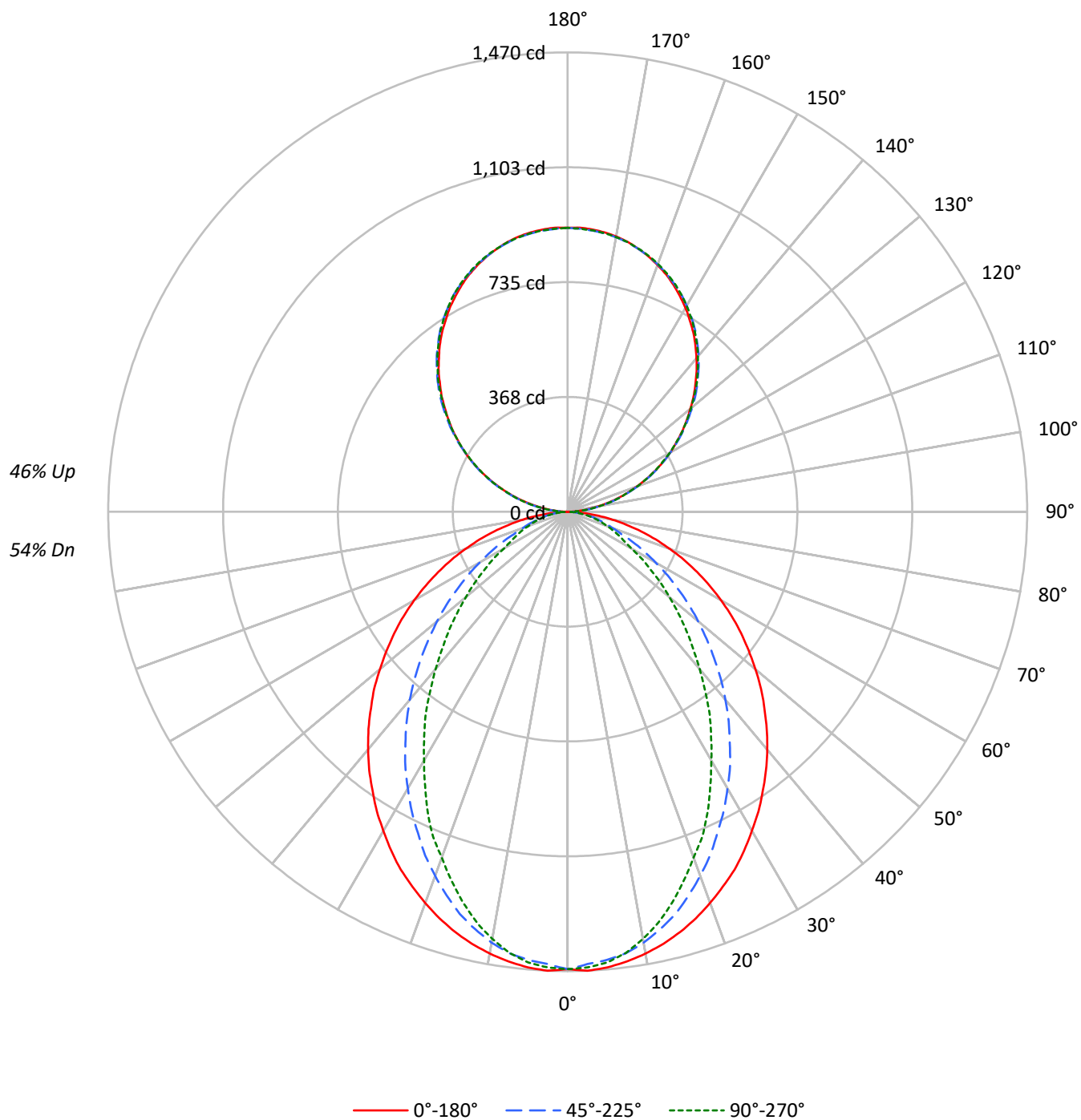
Lumens per Lamp: N/A
Luminaire Lumens: 5553.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	74	71	64	63	61	54	53	52
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	38
4	76	66	58	52	71	62	55	50	53	48	44	46	42	39	39	36	34
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	30
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	30	26	24
8	56	44	36	31	52	41	34	30	36	31	27	32	27	24	27	24	21
9	52	40	33	28	49	38	31	27	33	28	24	29	25	22	25	22	19
10	49	37	30	25	46	35	28	24	31	26	22	27	23	20	23	20	18

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	2.5
10°-20°	376.6	6.8
20°-30°	528.7	9.5
30°-40°	576.3	10.4
40°-50°	529.7	9.5
50°-60°	416.0	7.5
60°-70°	270.7	4.9
70°-80°	139.4	2.5
80°-90°	38.2	0.7
90°-100°	56.2	1.0
100°-110°	178.7	3.2
110°-120°	305.8	5.5
120°-130°	402.1	7.2
130°-140°	451.4	8.1
140°-150°	442.6	8.0
150°-160°	371.3	6.7
160°-170°	246.2	4.4
170°-180°	86.1	1.5
0°-30°	1042.4	18.8
0°-40°	1618.7	29.1
0°-60°	2564.3	46.2
0°-90°	3012.6	54.3
90°-120°	540.7	9.7
90°-150°	1836.8	33.1
90°-180°	2540.0	45.7
0°-180°	5553.0	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	27	25	26	5
95°	40	48	49	49	48	45
105°	165	167	169	170	170	174
115°	307	311	310	309	307	303
125°	446	453	451	449	448	399
135°	577	586	587	587	584	446
145°	701	706	711	712	708	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

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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	10.0	26.8	25.3	26.1
92.5°	16.9	23.0	23.8	24.5	24.5
95°	39.9	47.5	49.1	49.1	47.5
97.5°	66.7	73.6	76.7	76.7	76.7
100°	97.4	103.5	105.8	105.8	105.1
102.5°	129.6	134.2	137.3	138.0	137.3
105°	164.9	167.2	168.7	170.2	170.2
107.5°	200.1	203.2	203.2	204.0	200.1
110°	233.9	238.5	238.5	238.5	236.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.7	275.3	274.5	272.2	270.7
115°	306.7	311.3	309.8	309.0	306.7
117.5°	342.8	348.9	345.1	342.8	340.5
120°	378.8	384.9	378.8	378.8	376.5
122.5°	411.8	419.4	415.6	413.3	411.8
125°	446.3	453.2	450.9	448.6	447.8
127.5°	480.0	488.4	485.4	482.3	480.0
130°	511.5	521.4	519.9	518.4	515.3
132.5°	546.7	554.4	555.2	551.3	549.0
135°	577.4	585.8	587.4	586.6	584.3
137.5°	611.1	618.0	619.6	618.8	615.7
140°	641.0	647.9	651.8	651.8	648.7
142.5°	671.7	678.6	680.9	681.7	678.6
145°	700.8	706.2	710.8	711.6	708.5
147.5°	726.9	733.8	736.9	738.4	735.4
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)