

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: P999350

Luminaire Tested: SA2XXRDIP-B1005D530UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999350
REPORT IS A COMBINATION OF REPORTS P987901 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D530UB27-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

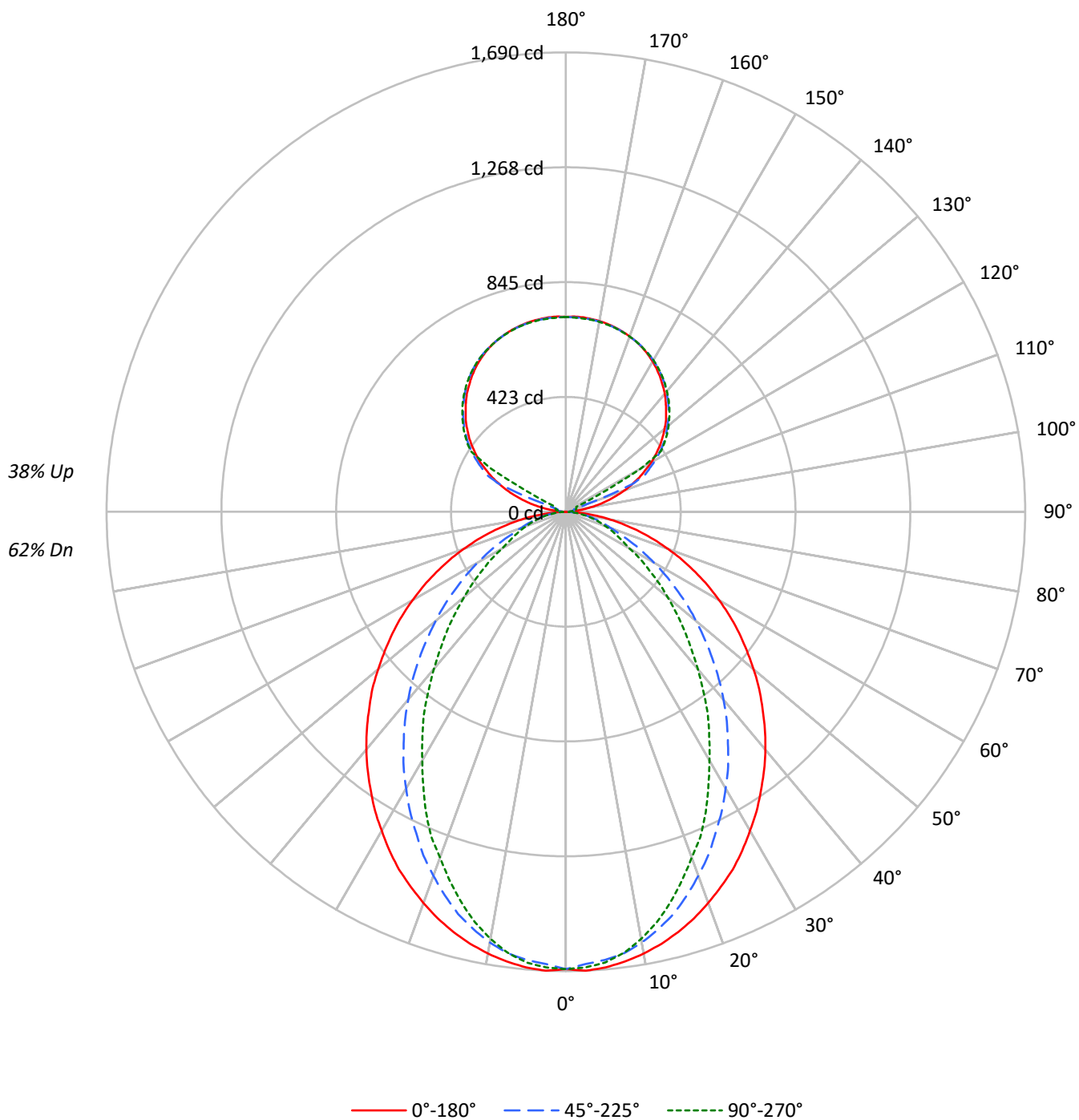
Lumens per Lamp: N/A
Luminaire Lumens: 5562.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	101	97	93	90	95	91	88	85	80	78	75	70	68	66	60	59	58
2	93	85	79	74	87	80	75	71	71	67	63	62	59	56	54	52	50
3	85	76	68	63	79	71	65	60	63	58	54	55	52	48	48	46	43
4	78	67	60	54	73	64	57	51	56	51	47	50	46	42	44	40	38
5	72	60	52	47	67	57	50	45	51	45	41	45	41	37	40	36	33
6	66	55	47	41	62	52	44	39	46	40	36	41	36	33	36	32	30
7	62	49	42	36	58	47	40	35	42	36	32	38	33	29	33	29	27
8	57	45	37	32	54	43	36	31	39	33	29	34	30	26	31	27	24
9	54	41	34	29	50	39	33	28	36	30	26	32	27	24	28	25	22
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	26	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26631	26631	26631
5°	26675	25336	25148
10°	26411	24030	23237
15°	26047	22487	21058
20°	25567	20734	18779
25°	25077	18934	16694
30°	24414	17182	14417
35°	23768	15415	12462
40°	23111	13678	10448
45°	22344	11888	8691
50°	21553	10159	7075
55°	20731	8433	5617
60°	19773	6744	4250
65°	18674	5141	3455
70°	17340	3730	2747
75°	15669	2845	2098
80°	13253	1926	1409
85°	9252	881	680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	2.8
10°-20°	432.8	7.8
20°-30°	607.7	10.9
30°-40°	662.4	11.9
40°-50°	608.8	10.9
50°-60°	478.1	8.6
60°-70°	311.2	5.6
70°-80°	160.2	2.9
80°-90°	42.2	0.8
90°-100°	23.6	0.4
100°-110°	88.1	1.6
110°-120°	233.6	4.2
120°-130°	387.5	7.0
130°-140°	411.6	7.4
140°-150°	382.5	6.9
150°-160°	307.5	5.5
160°-170°	198.2	3.6
170°-180°	68.2	1.2
0°-30°	1198.2	21.5
0°-40°	1860.7	33.5
0°-60°	2947.6	53.0
0°-90°	3461.3	62.2
90°-120°	345.3	6.2
90°-150°	1526.9	27.5
90°-180°	2101.0	37.8
0°-180°	5562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1682	1675	1655	1669	1664	160
15°	1600	1583	1532	1503	1488	451
25°	1452	1404	1303	1241	1218	668
35°	1252	1174	1040	944	910	783
45°	1023	921	761	653	617	790
55°	778	659	495	404	374	695
65°	525	402	265	213	209	521
75°	280	174	122	111	110	296
85°	66	34	29	29	29	75
90°	0	6	10	13	14	5
95°	34	17	20	23	22	40
105°	158	173	32	37	39	168
115°	298	307	320	80	42	293
125°	422	428	438	442	443	376
135°	522	530	535	540	539	403
145°	605	605	613	617	614	378
155°	666	662	668	671	667	307
165°	702	699	700	704	700	198
175°	718	714	716	719	714	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1690.0	1682.4	1665.6	1680.8	1677.8
5°	1682.4	1674.8	1655.0	1668.7	1664.1
7.5°	1668.7	1659.5	1638.2	1644.3	1636.7
10°	1650.4	1639.7	1609.3	1604.7	1595.6
12.5°	1627.6	1613.9	1572.7	1563.6	1546.9
15°	1600.1	1583.4	1531.6	1502.7	1487.5
17.5°	1568.2	1543.8	1479.9	1446.4	1422.0
20°	1531.6	1501.2	1425.1	1387.0	1353.5
22.5°	1492.1	1457.0	1368.7	1317.0	1294.1
25°	1452.5	1403.7	1303.3	1240.8	1218.0
27.5°	1405.3	1353.5	1242.4	1170.8	1135.8
30°	1355.0	1297.2	1175.4	1097.7	1056.6
32.5°	1306.3	1236.3	1111.4	1020.1	982.0
35°	1251.5	1173.8	1039.9	944.0	910.5
37.5°	1198.2	1114.5	972.9	867.8	829.8
40°	1141.9	1050.5	902.8	794.7	755.2
42.5°	1084.0	986.6	832.8	720.1	682.1
45°	1023.1	921.1	761.3	653.2	616.6
47.5°	965.3	857.2	692.7	584.6	551.1
50°	901.3	793.2	625.7	520.7	488.7
52.5°	838.9	724.7	561.8	461.3	432.4
55°	778.0	659.2	494.8	403.5	374.5
57.5°	715.6	593.8	435.4	350.2	325.8
60°	651.6	529.8	373.0	295.4	271.0
62.5°	589.2	467.4	319.7	246.6	234.5
65°	525.3	401.9	264.9	213.2	208.6
67.5°	464.4	341.0	213.2	187.3	182.7
70°	400.4	281.7	176.6	161.4	155.3
72.5°	339.5	226.9	147.7	135.5	132.5
75°	280.1	173.6	121.8	111.1	109.6
77.5°	220.8	123.3	95.9	89.8	86.8
80°	166.0	88.3	73.1	67.0	67.0
82.5°	115.7	59.4	50.2	47.2	47.2
85°	65.5	33.5	28.9	28.9	28.9
87.5°	24.4	12.2	12.2	10.7	10.7
90°	0.5	6.2	10.4	13.0	14.0
92.5°	13.0	10.9	12.4	13.5	14.0
95°	33.7	16.6	20.2	22.8	22.3
97.5°	60.7	18.1	26.4	28.0	28.5
100°	91.8	20.7	29.6	33.7	34.7
102.5°	126.0	125.0	30.6	36.3	37.9
105°	157.6	173.2	31.6	37.3	39.4
107.5°	194.4	207.4	32.7	38.4	40.4
110°	229.7	240.6	90.7	38.9	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	262.9	272.2	263.4	39.9	41.5
115°	298.1	307.0	319.9	79.8	42.5
117.5°	328.7	339.1	347.9	273.8	137.9
120°	363.0	370.7	380.1	386.3	316.3
122.5°	392.0	400.3	410.7	413.8	414.3
125°	421.5	428.3	438.1	441.8	443.3
127.5°	448.5	455.8	463.5	468.7	469.2
130°	473.9	482.2	487.9	493.6	493.1
132.5°	499.8	506.6	512.3	516.9	516.4
135°	521.6	529.9	534.6	539.8	538.7
137.5°	544.4	550.7	555.8	561.0	559.5
140°	566.7	570.9	576.6	581.2	578.7
142.5°	585.4	589.0	595.8	599.9	597.3
145°	605.1	604.6	613.4	617.0	614.4
147.5°	622.2	620.6	629.5	632.1	630.0
150°	638.8	635.2	643.5	646.6	644.0
152.5°	652.8	648.6	656.4	659.5	655.9
155°	666.3	661.6	667.8	670.9	666.8
157.5°	677.2	673.0	677.7	681.3	677.2
160°	686.5	683.4	686.5	689.6	686.0
162.5°	694.8	691.7	694.3	697.9	693.2
165°	702.1	698.9	700.5	704.1	700.5
167.5°	707.8	704.6	706.2	709.8	705.2
170°	712.4	709.3	710.4	714.0	709.3
172.5°	715.5	712.4	713.5	717.1	712.4
175°	718.1	714.5	715.5	719.2	714.0
177.5°	719.2	715.5	716.1	719.7	715.0
180°	716.6	716.6	716.6	716.6	716.6

(END OF REPORT)