

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: P1000172

Luminaire Tested: SA2XXRDIP-B865D530UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000172
REPORT IS A COMBINATION OF REPORTS P988732 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D530UB40-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

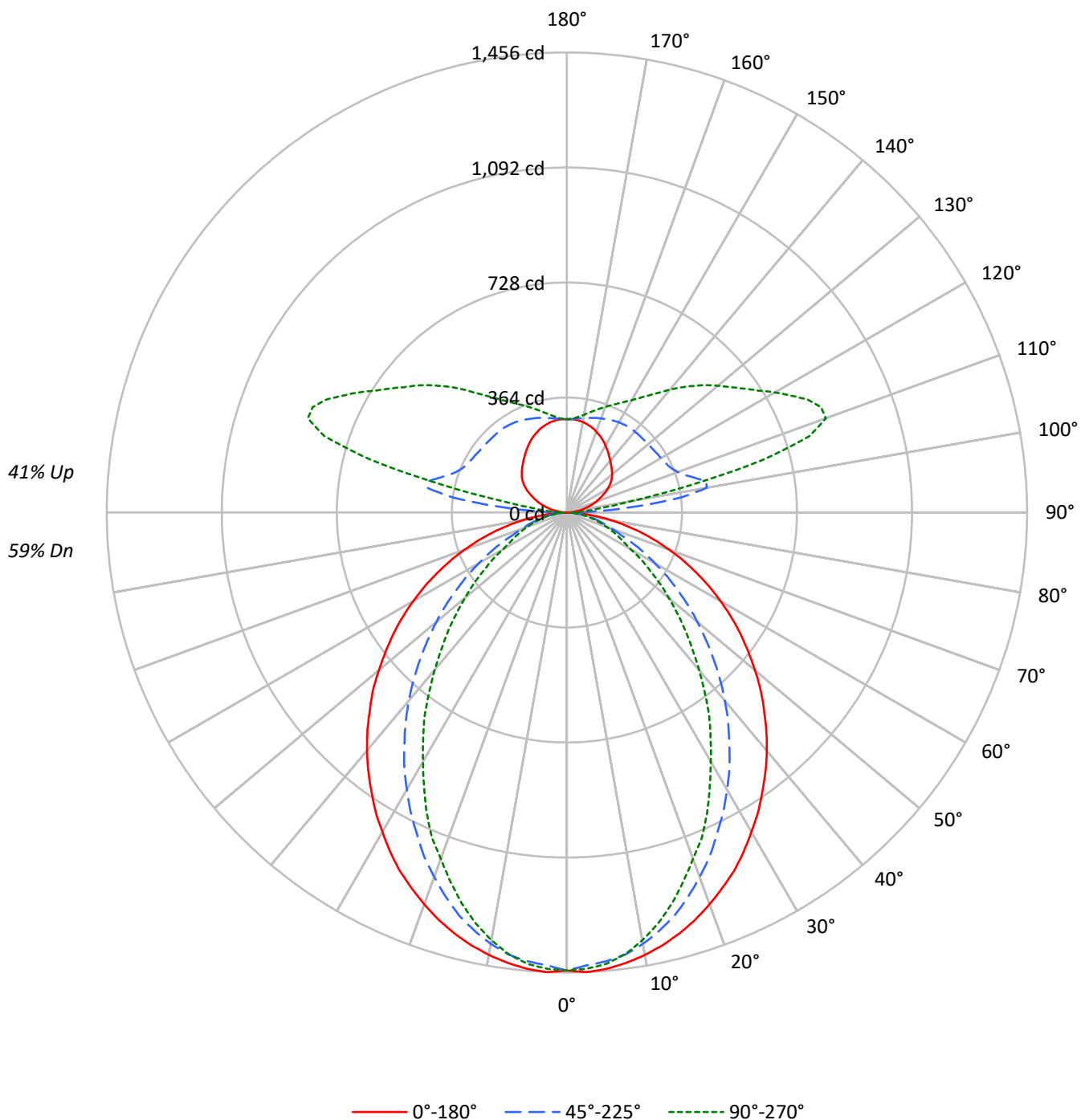
Lumens per Lamp: N/A
Luminaire Lumens: 5043.3 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65
1	100	96	92	89	94	90	87	84	78	76	74	68	66	64	58	57	56
2	92	85	79	74	86	79	74	70	69	65	62	60	57	55	52	50	48
3	84	75	68	62	78	70	64	59	62	57	53	54	50	47	46	44	41
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	39	36
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32
6	66	54	46	40	61	51	44	39	45	39	35	40	35	32	35	31	28
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	26	23
9	53	41	34	29	50	39	32	27	35	29	25	31	26	23	27	24	21
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	25	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22945	22945	22945
5°	22982	21828	21666
10°	22755	20703	20020
15°	22442	19374	18143
20°	22028	17863	16179
25°	21605	16312	14383
30°	21034	14804	12420
35°	20477	13280	10736
40°	19911	11786	9001
45°	19252	10242	7487
50°	18569	8753	6096
55°	17861	7265	4840
60°	17035	5811	3662
65°	16086	4429	2976
70°	14941	3214	2367
75°	13504	2450	1807
80°	11417	1660	1213
85°	7967	759	586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19252 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	2.7
10°-20°	372.9	7.4
20°-30°	523.6	10.4
30°-40°	570.7	11.3
40°-50°	524.5	10.4
50°-60°	412.0	8.2
60°-70°	268.1	5.3
70°-80°	138.0	2.7
80°-90°	37.2	0.7
90°-100°	119.8	2.4
100°-110°	405.0	8.0
110°-120°	425.7	8.4
120°-130°	350.1	6.9
130°-140°	281.3	5.6
140°-150°	212.5	4.2
150°-160°	149.4	3.0
160°-170°	88.0	1.7
170°-180°	28.6	0.6
0°-30°	1032.3	20.5
0°-40°	1603.1	31.8
0°-60°	2539.6	50.4
0°-90°	2982.9	59.1
90°-120°	950.6	18.8
90°-150°	1794.5	35.6
90°-180°	2060.0	40.8
0°-180°	5043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1450	1443	1426	1438	1434	137
15°	1379	1364	1320	1295	1282	388
25°	1251	1209	1123	1069	1049	576
35°	1078	1011	896	813	784	675
45°	882	794	656	563	531	681
55°	670	568	426	348	323	599
65°	452	346	228	184	180	449
75°	241	150	105	96	94	255
85°	56	29	25	25	25	65
90°	1	8	19	18	19	4
95°	20	49	223	84	65	21
105°	69	105	421	753	640	74
115°	122	154	352	727	843	121
125°	170	202	339	589	684	152
135°	200	239	335	495	567	155
145°	228	263	333	413	452	143
155°	260	280	323	366	380	120
165°	283	292	310	328	334	80
175°	295	295	298	302	301	28
180°	296	296	296	296	296	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1456.0	1449.5	1435.0	1448.1	1445.5
5°	1449.5	1442.9	1425.8	1437.7	1433.7
7.5°	1437.7	1429.8	1411.4	1416.7	1410.1
10°	1421.9	1412.7	1386.5	1382.6	1374.7
12.5°	1402.2	1390.4	1355.0	1347.1	1332.7
15°	1378.6	1364.2	1319.6	1294.7	1281.6
17.5°	1351.1	1330.1	1275.0	1246.1	1225.2
20°	1319.6	1293.4	1227.8	1195.0	1166.1
22.5°	1285.5	1255.3	1179.2	1134.6	1115.0
25°	1251.4	1209.4	1122.8	1069.1	1049.4
27.5°	1210.7	1166.1	1070.4	1008.7	978.5
30°	1167.4	1117.6	1012.7	945.8	910.3
32.5°	1125.5	1065.1	957.6	878.9	846.1
35°	1078.2	1011.3	895.9	813.3	784.4
37.5°	1032.3	960.2	838.2	747.7	714.9
40°	983.8	905.1	777.9	684.7	650.6
42.5°	934.0	850.0	717.5	620.4	587.7
45°	881.5	793.6	655.9	562.7	531.2
47.5°	831.6	738.5	596.8	503.7	474.8
50°	776.5	683.4	539.1	448.6	421.1
52.5°	722.8	624.4	484.0	397.5	372.5
55°	670.3	568.0	426.3	347.6	322.7
57.5°	616.5	511.6	375.2	301.7	280.7
60°	561.4	456.5	321.4	254.5	233.5
62.5°	507.6	402.7	275.5	212.5	202.0
65°	452.5	346.3	228.2	183.6	179.7
67.5°	400.1	293.8	183.6	161.3	157.4
70°	345.0	242.7	152.2	139.0	133.8
72.5°	292.5	195.4	127.2	116.7	114.1
75°	241.4	149.5	104.9	95.8	94.4
77.5°	190.2	106.2	82.6	77.4	74.8
80°	143.0	76.1	63.0	57.7	57.7
82.5°	99.7	51.2	43.3	40.7	40.7
85°	56.4	28.9	24.9	24.9	24.9
87.5°	21.0	10.5	10.5	9.2	9.2
90°	0.6	7.6	19.3	18.5	18.8
92.5°	8.5	27.0	87.5	40.4	34.7
95°	19.9	48.9	222.8	84.2	64.8
97.5°	29.6	64.5	363.2	168.8	108.6
100°	43.8	79.0	449.0	336.2	203.5
102.5°	56.8	92.0	451.8	568.3	396.7
105°	69.3	104.6	421.1	752.8	640.5
107.5°	83.0	117.0	392.7	819.6	804.8
110°	96.6	129.8	373.4	808.7	871.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.1	142.1	360.9	772.0	870.7
115°	122.2	154.3	352.4	727.2	842.8
117.5°	135.8	166.6	347.8	684.2	800.8
120°	148.3	178.4	343.8	646.0	760.4
122.5°	160.3	190.6	341.6	616.0	718.4
125°	170.5	201.8	338.7	589.1	683.7
127.5°	179.0	212.2	337.0	566.1	651.3
130°	186.4	221.6	335.9	542.8	624.6
132.5°	193.2	230.8	335.3	518.6	596.7
135°	200.1	238.7	334.7	495.0	566.6
137.5°	206.3	245.5	334.7	471.2	537.6
140°	213.7	251.8	334.2	450.1	507.5
142.5°	221.1	256.9	334.2	430.0	477.4
145°	228.5	262.6	333.0	413.4	452.4
147.5°	236.4	267.1	331.3	399.0	430.2
150°	244.4	271.6	329.6	386.5	410.9
152.5°	252.3	276.2	326.8	376.0	394.4
155°	259.7	280.4	323.4	365.7	380.2
157.5°	266.0	283.9	320.0	356.0	367.7
160°	272.2	287.3	316.6	346.4	355.8
162.5°	278.5	289.8	313.7	337.3	344.4
165°	283.0	291.6	309.7	328.5	333.6
167.5°	287.0	293.2	306.3	320.5	323.4
170°	291.0	294.2	303.5	313.2	314.3
172.5°	293.3	295.0	300.1	306.6	306.9
175°	295.0	295.2	297.8	301.5	300.6
177.5°	296.1	295.5	295.5	297.8	296.1
180°	295.5	295.5	295.5	295.5	295.5

(END OF REPORT)