

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: P1000092

Luminaire Tested: SA2XXRDIP-B865D1080UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000092
REPORT IS A COMBINATION OF REPORTS P988651 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D1080UB40-4F0-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

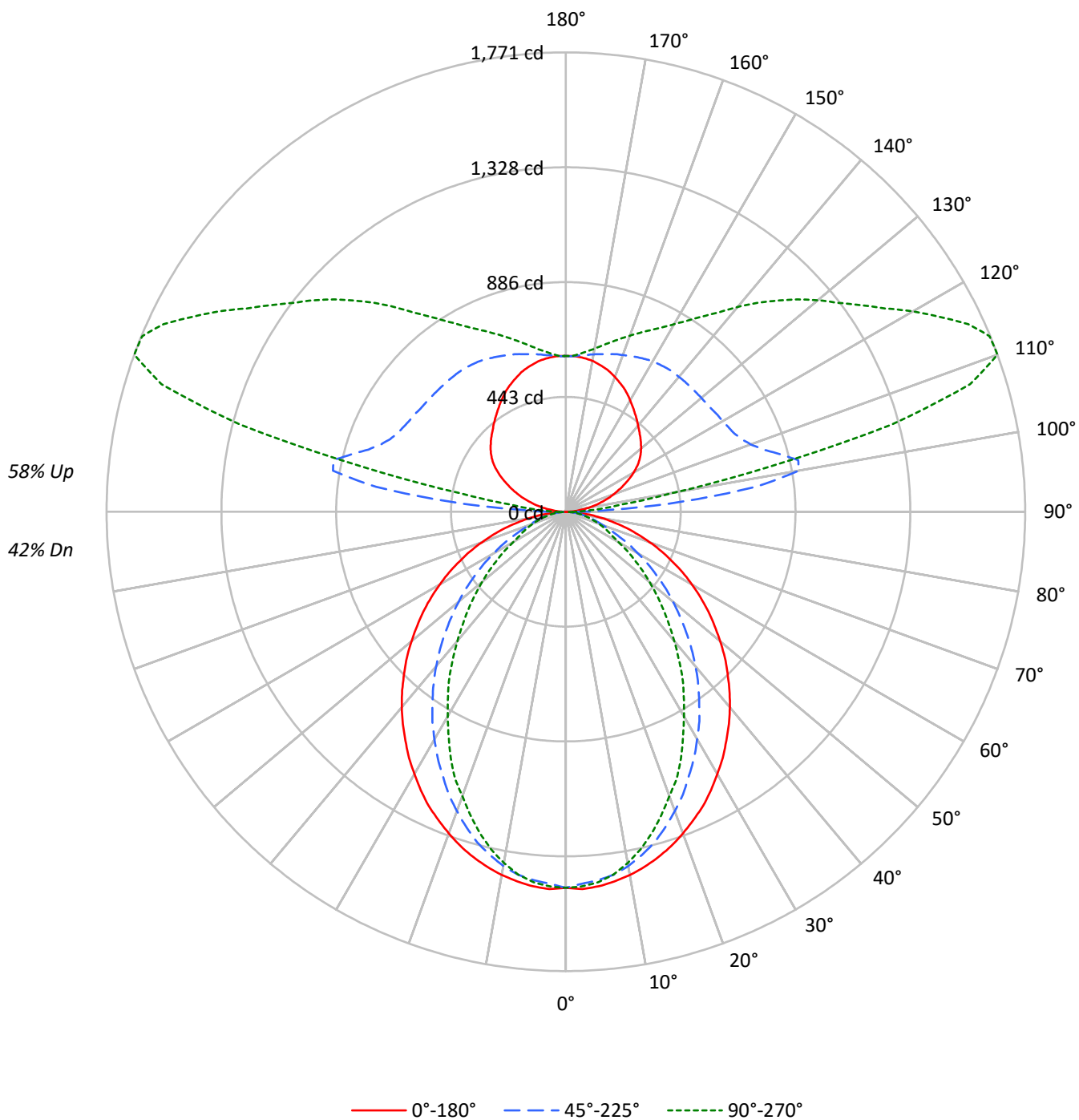
Lumens per Lamp: N/A
Luminaire Lumens: 7169.8 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	81	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

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	1.9
10°-20°	372.9	5.2
20°-30°	523.6	7.3
30°-40°	570.7	8.0
40°-50°	524.5	7.3
50°-60°	412.0	5.7
60°-70°	268.1	3.7
70°-80°	138.0	1.9
80°-90°	39.1	0.5
90°-100°	243.3	3.4
100°-110°	822.6	11.5
110°-120°	864.7	12.1
120°-130°	711.0	9.9
130°-140°	571.4	8.0
140°-150°	431.6	6.0
150°-160°	303.4	4.2
160°-170°	178.7	2.5
170°-180°	58.1	0.8
0°-30°	1032.3	14.4
0°-40°	1603.1	22.4
0°-60°	2539.6	35.4
0°-90°	2984.8	41.6
90°-120°	1930.6	26.9
90°-150°	3644.7	50.8
90°-180°	4185.0	58.4
0°-180°	7169.8	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	16	39	38	38	6
95°	40	99	452	171	132	42
105°	141	212	855	1529	1301	150
115°	248	313	716	1477	1712	246
125°	346	410	688	1196	1389	308
135°	406	485	680	1005	1151	314
145°	464	533	676	840	919	291
155°	528	570	657	743	772	243
165°	575	592	629	667	678	162
175°	599	600	605	612	611	57
180°	600	600	600	600	600	

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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°	1.2	15.6	39.2	37.5	38.1
92.5°	17.3	54.8	177.8	81.9	70.4
95°	40.4	99.2	452.5	170.8	131.6
97.5°	60.0	131.0	737.6	342.8	220.5
100°	88.9	160.4	911.9	682.8	413.2
102.5°	115.4	187.0	917.7	1154.4	805.7
105°	140.8	212.4	855.4	1528.9	1300.9
107.5°	168.5	237.8	797.6	1664.5	1634.5
110°	196.2	263.8	758.4	1642.6	1770.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.6	288.6	733.0	1568.2	1768.4
115°	248.2	313.4	715.7	1477.0	1711.9
117.5°	275.9	338.2	706.4	1389.8	1626.4
120°	301.3	362.5	698.4	1311.9	1544.5
122.5°	325.5	387.2	693.7	1251.3	1459.1
125°	346.3	409.8	688.0	1196.4	1388.7
127.5°	363.6	431.2	684.5	1149.7	1322.9
130°	378.6	450.2	682.2	1102.4	1268.6
132.5°	392.5	468.6	681.1	1053.3	1212.0
135°	406.3	484.8	679.9	1005.4	1150.9
137.5°	419.0	498.7	679.9	957.0	1092.0
140°	434.0	511.4	678.7	914.2	1030.8
142.5°	449.0	521.8	678.7	873.2	969.6
145°	464.0	533.3	676.4	839.8	918.8
147.5°	480.2	542.6	673.0	810.3	873.8
150°	496.4	551.8	669.5	785.0	834.6
152.5°	512.5	561.0	663.7	763.6	801.1
155°	527.5	569.6	656.8	742.8	772.2
157.5°	540.2	576.6	649.9	723.2	746.8
160°	552.9	583.6	643.0	703.6	722.6
162.5°	565.6	588.7	637.2	685.1	699.5
165°	574.9	592.2	629.1	667.2	677.6
167.5°	582.9	595.6	622.2	651.0	656.8
170°	591.0	597.4	616.4	636.0	638.3
172.5°	595.6	599.0	609.5	622.8	623.3
175°	599.1	599.7	604.9	612.3	610.6
177.5°	601.4	600.2	600.2	604.9	601.4
180°	600.2	600.2	600.2	600.2	600.2

(END OF REPORT)