

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: P999691

Luminaire Tested: SA2XXRDIP-B485D1080UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999691
REPORT IS A COMBINATION OF REPORTS P988244 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D1080UB35-4F0-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

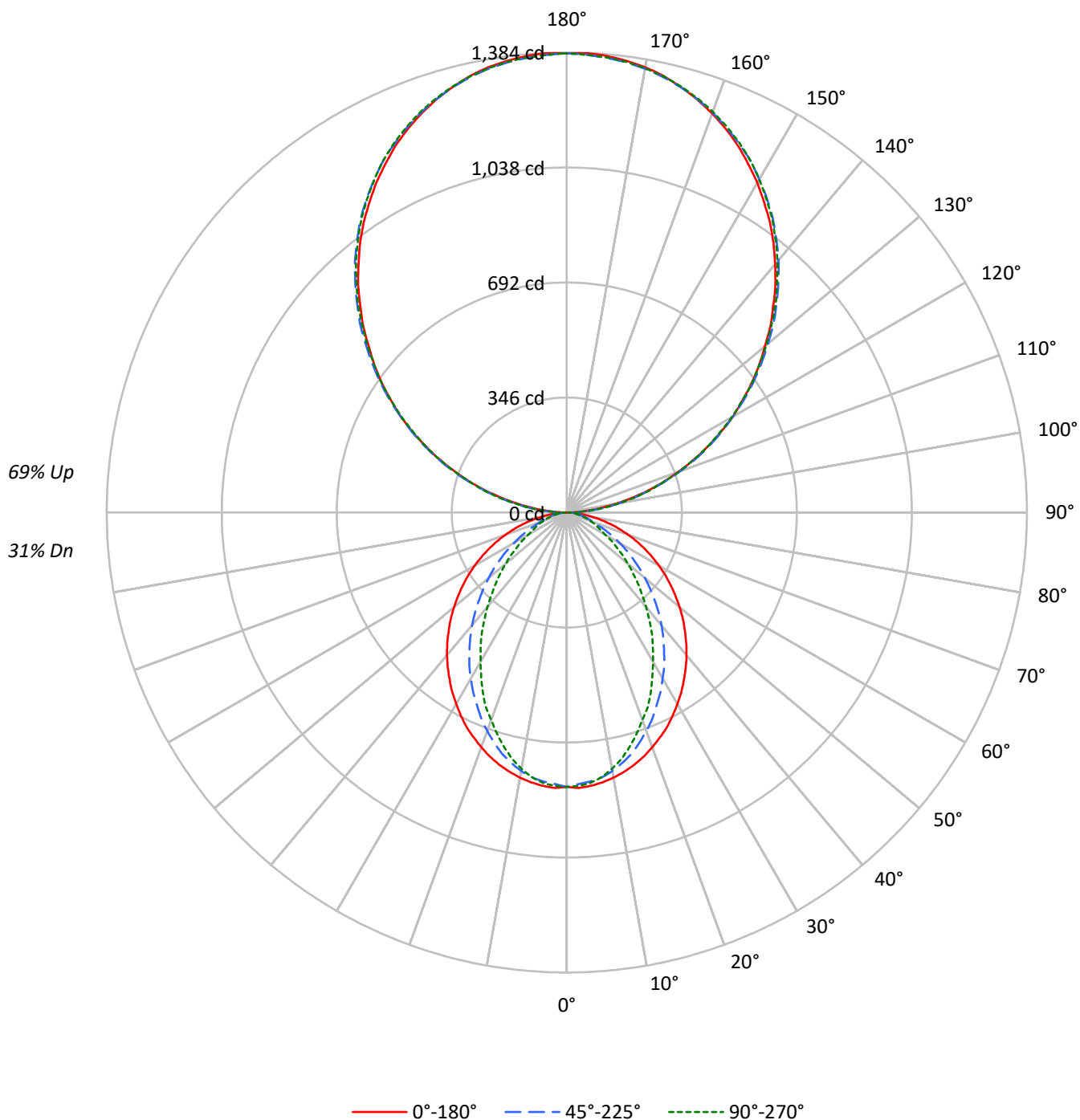
Lumens per Lamp: N/A
Luminaire Lumens: 5564.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	34	33
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28
3	78	69	62	57	70	63	57	52	50	46	42	38	35	33	27	26	24
4	72	61	54	48	64	56	49	44	44	40	36	34	31	29	25	23	21
5	66	55	47	41	59	50	43	38	40	35	31	31	27	25	22	20	19
6	61	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16
7	56	44	37	31	50	40	34	29	33	28	24	25	22	19	19	16	15
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13
9	48	37	29	25	43	33	27	23	27	22	19	21	18	16	16	14	12
10	45	33	27	22	41	31	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13069	13069	13069
5°	13090	12434	12342
10°	12961	11793	11403
15°	12784	11036	10334
20°	12548	10176	9216
25°	12306	9292	8192
30°	11982	8432	7075
35°	11665	7564	6115
40°	11342	6713	5127
45°	10966	5834	4265
50°	10577	4986	3472
55°	10174	4138	2757
60°	9704	3310	2086
65°	9165	2523	1696
70°	8510	1831	1348
75°	7692	1397	1030
80°	6499	946	692
85°	4534	433	334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.4
10°-20°	212.4	3.8
20°-30°	298.2	5.4
30°-40°	325.1	5.8
40°-50°	298.8	5.4
50°-60°	234.7	4.2
60°-70°	152.7	2.7
70°-80°	78.6	1.4
80°-90°	24.0	0.4
90°-100°	85.5	1.5
100°-110°	271.7	4.9
110°-120°	464.8	8.4
120°-130°	611.3	11.0
130°-140°	686.2	12.3
140°-150°	672.9	12.1
150°-160°	564.5	10.1
160°-170°	374.4	6.7
170°-180°	130.8	2.4
0°-30°	588.0	10.6
0°-40°	913.1	16.4
0°-60°	1446.5	26.0
0°-90°	1701.9	30.6
90°-120°	822.0	14.8
90°-150°	2792.4	50.2
90°-180°	3862.0	69.4
0°-180°	5564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	826	822	812	819	817	78
15°	785	777	752	738	730	221
25°	713	689	640	609	598	328
35°	614	576	510	463	447	384
45°	502	452	374	320	303	388
55°	382	324	243	198	184	341
65°	258	197	130	105	102	256
75°	138	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	15	41	38	40	5
95°	61	72	75	75	72	68
105°	251	254	256	259	259	265
115°	466	473	471	470	466	461
125°	678	689	685	682	681	606
135°	878	891	893	892	888	678
145°	1066	1074	1081	1082	1077	666
155°	1218	1222	1225	1231	1228	561
165°	1325	1324	1324	1332	1327	374
175°	1379	1376	1373	1381	1374	131
180°	1381	1381	1381	1381	1381	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.6	825.6	825.6	825.6	825.6
2.5°	829.4	825.6	817.4	824.9	823.4
5°	825.6	821.9	812.2	818.9	816.7
7.5°	818.9	814.4	804.0	806.9	803.2
10°	809.9	804.7	789.8	787.5	783.0
12.5°	798.7	792.0	771.8	767.3	759.1
15°	785.3	777.1	751.7	737.5	730.0
17.5°	769.6	757.6	726.2	709.8	697.9
20°	751.7	736.7	699.4	680.7	664.2
22.5°	732.2	715.0	671.7	646.3	635.1
25°	712.8	688.9	639.6	608.9	597.7
27.5°	689.6	664.2	609.7	574.6	557.4
30°	665.0	636.6	576.8	538.7	518.5
32.5°	641.1	606.7	545.4	500.6	481.9
35°	614.2	576.1	510.3	463.2	446.8
37.5°	588.0	546.9	477.4	425.9	407.2
40°	560.4	515.5	443.1	390.0	370.6
42.5°	532.0	484.2	408.7	353.4	334.7
45°	502.1	452.0	373.6	320.5	302.6
47.5°	473.7	420.7	340.0	286.9	270.5
50°	442.3	389.3	307.1	255.5	239.8
52.5°	411.7	355.7	275.7	226.4	212.2
55°	381.8	323.5	242.8	198.0	183.8
57.5°	351.2	291.4	213.7	171.8	159.9
60°	319.8	260.0	183.1	145.0	133.0
62.5°	289.2	229.4	156.9	121.0	115.1
65°	257.8	197.3	130.0	104.6	102.4
67.5°	227.9	167.4	104.6	91.9	89.7
70°	196.5	138.2	86.7	79.2	76.2
72.5°	166.6	111.3	72.5	66.5	65.0
75°	137.5	85.2	59.8	54.5	53.8
77.5°	108.3	60.5	47.1	44.1	42.6
80°	81.4	43.3	35.9	32.9	32.9
82.5°	56.8	29.1	24.7	23.2	23.2
85°	32.1	16.4	14.2	14.2	14.2
87.5°	12.0	6.0	6.0	5.2	5.2
90°	1.2	15.2	40.8	38.5	39.6
92.5°	25.6	35.0	36.1	37.3	37.3
95°	60.6	72.3	74.6	74.6	72.3
97.5°	101.4	111.9	116.6	116.6	116.6
100°	148.0	157.4	160.9	160.9	159.7
102.5°	197.0	204.0	208.7	209.8	208.7
105°	250.6	254.1	256.5	258.8	258.8
107.5°	304.3	308.9	308.9	310.1	304.3
110°	355.5	362.5	362.5	362.5	359.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	411.5	418.5	417.3	413.8	411.5
115°	466.3	473.3	471.0	469.8	466.3
117.5°	521.1	530.4	524.6	521.1	517.6
120°	575.9	585.2	575.9	575.9	572.4
122.5°	626.0	637.6	631.8	628.3	626.0
125°	678.4	688.9	685.4	681.9	680.8
127.5°	729.7	742.6	737.9	733.2	729.7
130°	777.5	792.7	790.4	788.0	783.4
132.5°	831.2	842.8	844.0	838.2	834.7
135°	877.8	890.6	892.9	891.8	888.3
137.5°	929.1	939.6	941.9	940.7	936.1
140°	974.5	985.0	990.9	990.9	986.2
142.5°	1021.2	1031.7	1035.2	1036.3	1031.7
145°	1065.5	1073.6	1080.6	1081.8	1077.1
147.5°	1105.1	1115.6	1120.3	1122.6	1117.9
150°	1145.9	1152.9	1157.6	1161.1	1157.6
152.5°	1182.0	1189.0	1194.9	1199.5	1194.9
155°	1218.2	1221.7	1225.2	1231.0	1227.5
157.5°	1249.7	1252.0	1254.3	1262.5	1256.6
160°	1277.6	1280.0	1281.1	1288.1	1283.5
162.5°	1303.3	1303.3	1304.4	1312.6	1306.8
165°	1325.4	1324.3	1324.3	1332.4	1326.6
167.5°	1345.2	1341.7	1341.7	1349.9	1344.1
170°	1360.4	1356.9	1355.7	1363.9	1356.9
172.5°	1370.9	1367.4	1366.2	1374.4	1367.4
175°	1379.0	1375.5	1373.2	1381.4	1374.4
177.5°	1383.7	1380.2	1377.9	1384.9	1377.9
180°	1381.4	1381.4	1381.4	1381.4	1381.4

(END OF REPORT)