

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: P1009454

Luminaire Tested: S122DIP-B865D1080UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009454
REPORT IS A COMBINATION OF REPORTS P984755 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D1080UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

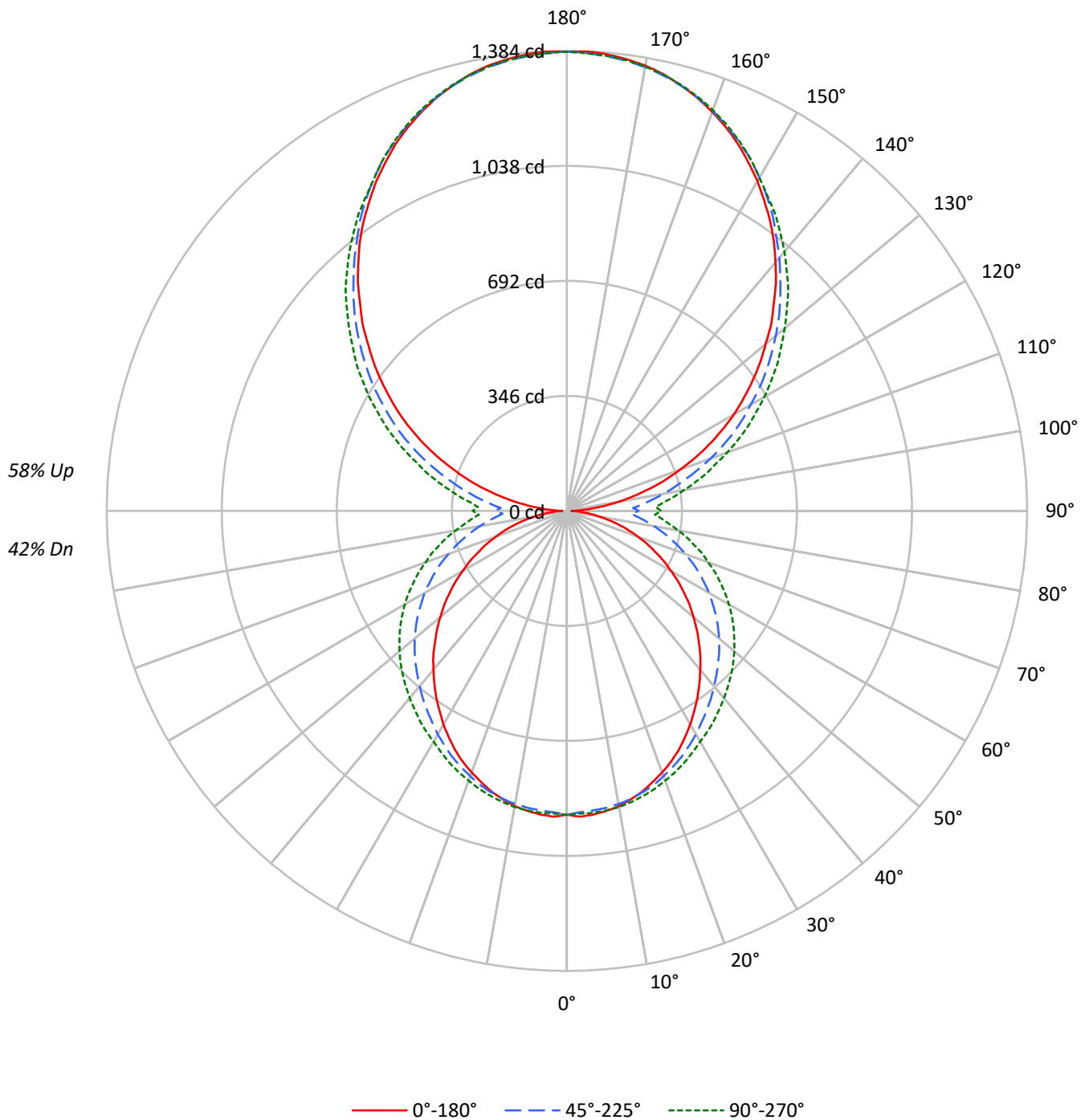
Lumens per Lamp: N/A
Luminaire Lumens: 7354.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	49	49	49
1	95	90	86	82	86	82	78	75	67	65	62	54	52	50	41	40	39
2	86	78	71	66	78	71	65	60	58	54	50	46	43	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	31	29	26
4	71	60	52	45	64	55	47	42	45	40	35	36	32	29	28	25	22
5	65	53	45	38	59	49	41	36	40	34	30	32	28	25	25	22	19
6	60	47	39	33	54	43	36	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	25	46	35	28	24	29	24	20	24	20	17	19	15	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14470	14470	14470
5°	14536	13853	13775
10°	14438	13373	13178
15°	14234	12876	12565
20°	13977	12355	11985
25°	13723	11856	11458
30°	13368	11348	10936
35°	13007	10860	10552
40°	12629	10437	10173
45°	12268	10054	9841
50°	11880	9701	9513
55°	11474	9326	9180
60°	10976	8935	8830
65°	10455	8485	8425
70°	9870	8002	7993
75°	9118	7519	7581
80°	7936	7018	7158
85°	6738	6544	6791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.2
10°-20°	248.5	3.4
20°-30°	376.6	5.1
30°-40°	458.6	6.2
40°-50°	493.4	6.7
50°-60°	479.2	6.5
60°-70°	418.5	5.7
70°-80°	322.1	4.4
80°-90°	219.6	3.0
90°-100°	234.3	3.2
100°-110°	380.3	5.2
110°-120°	536.6	7.3
120°-130°	651.3	8.9
130°-140°	703.0	9.6
140°-150°	675.8	9.2
150°-160°	564.5	7.7
160°-170°	374.4	5.1
170°-180°	130.8	1.8
0°-30°	711.8	9.7
0°-40°	1170.4	15.9
0°-60°	2142.9	29.1
0°-90°	3103.1	42.2
90°-120°	1151.2	15.7
90°-150°	3181.2	43.3
90°-180°	4251.0	57.8
0°-180°	7354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	913	905	913	912	87
15°	874	877	877	889	888	246
25°	795	804	816	832	836	366
35°	685	708	733	762	771	428
45°	562	598	644	685	698	434
55°	431	478	547	595	612	385
65°	294	359	437	492	509	292
75°	163	237	322	379	396	172
85°	48	130	215	270	289	50
90°	14	105	216	266	283	13
95°	71	145	227	277	291	76
105°	257	299	370	419	434	272
115°	472	493	550	589	600	466
125°	681	692	730	763	774	609
135°	879	892	908	934	941	680
145°	1066	1074	1081	1090	1092	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°	914.1	914.1	914.1	914.1	914.1
2.5°	920.8	916.8	907.5	914.1	911.5
5°	916.8	912.8	904.9	912.8	911.5
7.5°	910.2	907.5	900.9	910.2	908.8
10°	902.2	899.6	895.6	906.2	904.9
12.5°	889.0	890.3	887.6	898.2	896.9
15°	874.4	877.0	877.0	889.0	887.6
17.5°	855.8	861.1	865.1	877.0	877.0
20°	837.3	843.9	849.2	863.8	863.8
22.5°	817.4	825.4	833.3	847.9	850.5
25°	794.9	804.2	816.1	832.0	836.0
27.5°	768.4	783.0	796.2	816.1	818.7
30°	741.9	759.1	776.3	797.5	801.5
32.5°	712.8	732.6	753.8	779.0	786.9
35°	684.9	707.5	732.6	761.8	771.0
37.5°	654.5	679.6	711.4	743.2	752.5
40°	624.0	653.1	688.9	723.4	735.3
42.5°	594.8	624.0	666.4	704.8	716.7
45°	561.7	597.5	643.9	684.9	698.2
47.5°	529.9	568.4	621.3	663.7	678.3
50°	496.8	537.9	597.5	642.5	657.1
52.5°	465.0	508.7	572.3	618.7	634.6
55°	430.6	478.3	547.2	594.8	612.1
57.5°	397.4	450.4	519.3	571.0	588.2
60°	361.7	418.6	494.2	544.5	563.1
62.5°	329.9	389.5	465.0	519.3	536.6
65°	294.1	359.0	437.2	491.5	508.7
67.5°	262.3	329.9	409.4	463.7	482.2
70°	227.9	296.8	378.9	435.9	451.8
72.5°	196.1	267.6	351.1	406.7	426.6
75°	163.0	237.1	321.9	378.9	396.1
77.5°	131.2	208.0	294.1	351.1	369.6
80°	99.4	180.2	266.3	321.9	340.5
82.5°	72.9	152.4	239.8	295.4	312.7
85°	47.7	129.8	214.6	270.3	288.8
87.5°	29.1	108.6	193.4	247.7	265.0
90°	14.4	105.3	215.7	266.4	283.4
92.5°	37.5	117.1	199.1	251.9	267.8
95°	71.2	145.2	227.0	277.3	290.9
97.5°	110.7	178.1	259.7	308.7	324.6
100°	157.3	215.7	293.4	342.4	355.8
102.5°	204.9	255.7	331.9	380.7	394.2
105°	257.2	299.1	370.4	419.1	433.7
107.5°	310.9	347.3	413.6	459.8	468.6
110°	360.8	394.3	459.2	501.6	512.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	416.8	445.0	504.7	543.6	555.9
115°	471.6	493.2	550.5	589.0	600.1
117.5°	525.1	545.0	594.8	631.1	640.8
120°	579.9	594.5	638.2	675.3	686.3
122.5°	630.0	642.9	686.1	718.4	728.0
125°	681.0	691.5	730.4	762.7	773.5
127.5°	732.3	743.9	775.0	803.4	811.8
130°	780.1	794.0	819.5	848.9	854.9
132.5°	833.8	844.1	865.2	889.9	897.0
135°	879.1	891.9	907.5	934.2	941.3
137.5°	930.4	940.9	949.8	973.8	978.5
140°	975.8	985.0	993.5	1014.7	1018.0
142.5°	1022.5	1031.7	1035.2	1052.2	1054.2
145°	1065.5	1073.6	1080.6	1089.7	1091.7
147.5°	1105.1	1115.6	1120.3	1123.9	1123.2
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)