

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: P1025521

Luminaire Tested: S124DIP-B575D1035UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025521
REPORT IS A COMBINATION OF REPORTS P996076 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB50-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

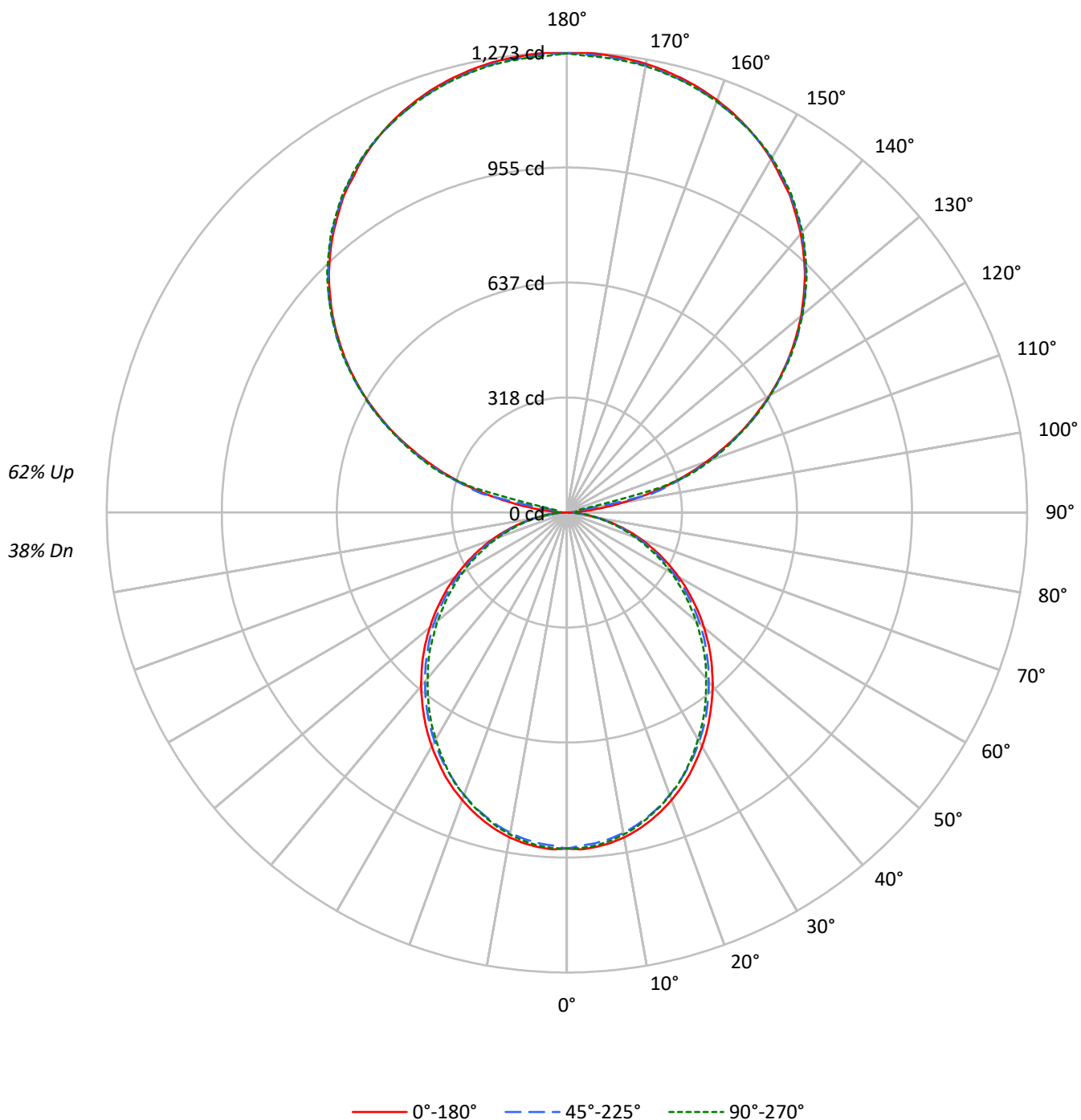
Lumens per Lamp: N/A
Luminaire Lumens: 6321.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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

TEST NUMBER: P1025521

CATALOG NUMBER: S124DIP-B575D1035UB50-4F0-XX-W2A-F

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38		
1	95	91	87	83	86	82	79	76	67	65	63	53	51	50	40	39	38	32		
2	86	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27		
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23		
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17		
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	23	20	18	15		
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13		
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12		
9	48	36	29	24	44	33	27	23	28	23	19	22	19	16	17	15	13	11		
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7584	7584	7584
5°	7589	7366	7375
10°	7526	7161	7111
15°	7417	6918	6813
20°	7280	6655	6506
25°	7125	6377	6174
30°	6937	6077	5811
35°	6744	5769	5459
40°	6541	5438	5085
45°	6330	5106	4735
50°	6095	4785	4348
55°	5841	4408	3963
60°	5579	3997	3563
65°	5282	3572	3111
70°	4937	3059	2627
75°	4424	2467	2104
80°	3771	1783	1480
85°	2925	992	797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6330 cd/sqm

TEST NUMBER: P1025521

CATALOG NUMBER: S124DIP-B575D1035UB50-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.4
10°-20°	247.0	3.9
20°-30°	363.4	5.7
30°-40°	422.5	6.7
40°-50°	422.5	6.7
50°-60°	369.5	5.8
60°-70°	274.3	4.3
70°-80°	155.6	2.5
80°-90°	47.2	0.7
90°-100°	42.2	0.7
100°-110°	277.7	4.4
110°-120°	530.3	8.4
120°-130°	673.3	10.7
130°-140°	720.3	11.4
140°-150°	673.5	10.7
150°-160°	543.1	8.6
160°-170°	350.3	5.5
170°-180°	120.7	1.9
0°-30°	698.1	11.0
0°-40°	1120.5	17.7
0°-60°	1912.5	30.3
0°-90°	2389.6	37.8
90°-120°	850.3	13.5
90°-150°	2917.3	46.2
90°-180°	3931.0	62.2
0°-180°	6321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	929	926	918	926	925	88
15°	884	882	870	875	873	249
25°	801	796	785	786	783	369
35°	689	684	674	668	665	431
45°	563	557	546	537	535	434
55°	426	423	413	404	399	381
65°	288	285	277	270	266	285
75°	154	150	146	143	142	163
85°	40	40	39	39	38	43
90°	3	13	21	27	28	5
95°	52	20	21	27	28	64
105°	286	292	296	305	271	299
115°	534	537	536	538	538	526
125°	751	754	753	756	756	670
135°	931	930	934	936	938	718
145°	1074	1077	1077	1078	1080	671
155°	1177	1178	1176	1179	1176	543
165°	1242	1237	1237	1245	1236	351
175°	1270	1265	1266	1274	1263	121
180°	1270	1270	1270	1270	1270	

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CATALOG NUMBER: S124DIP-B575D1035UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.0	930.0	930.0	930.0	930.0
2.5°	933.0	930.7	922.5	930.0	929.2
5°	929.2	926.3	918.1	926.3	924.8
7.5°	922.5	919.6	910.6	917.3	916.6
10°	912.9	909.9	900.2	906.1	904.7
12.5°	900.2	897.2	886.8	893.5	891.2
15°	884.5	881.6	870.4	874.8	872.6
17.5°	866.6	862.9	852.5	855.5	854.0
20°	846.5	842.8	831.6	833.9	832.4
22.5°	824.9	819.7	808.5	813.0	810.0
25°	801.1	795.9	785.4	786.2	783.2
27.5°	774.2	769.0	759.3	757.9	754.1
30°	747.4	741.5	731.8	728.8	725.1
32.5°	719.1	713.9	703.5	699.7	696.0
35°	689.3	684.1	673.6	668.4	664.7
37.5°	658.0	653.5	642.3	637.1	631.9
40°	627.4	621.5	610.3	602.9	599.1
42.5°	594.7	591.7	579.0	570.1	567.8
45°	562.6	557.4	545.5	537.3	535.0
47.5°	529.1	525.4	514.2	505.2	499.3
50°	494.8	491.8	481.4	471.0	466.5
52.5°	461.3	457.5	446.4	437.4	431.5
55°	425.5	423.3	412.8	403.9	399.4
57.5°	392.0	389.7	379.3	370.4	365.9
60°	356.9	353.2	343.5	336.8	333.1
62.5°	322.7	319.7	309.3	303.3	299.6
65°	288.4	284.7	277.2	269.8	266.0
67.5°	253.4	250.4	242.9	235.5	234.7
70°	221.3	216.1	210.1	204.2	201.9
72.5°	187.0	181.8	177.4	172.9	170.6
75°	153.5	149.8	146.1	143.1	142.3
77.5°	120.7	119.2	115.5	114.8	112.5
80°	91.7	89.4	87.9	86.4	85.7
82.5°	63.3	62.6	62.6	61.9	61.1
85°	40.2	40.2	38.7	38.7	38.0
87.5°	19.4	18.6	17.9	17.9	17.9
90°	2.9	13.3	20.9	26.6	28.5
92.5°	14.3	12.4	20.0	25.7	25.7
95°	52.3	20.0	20.9	26.6	27.6
97.5°	99.8	120.7	20.9	25.7	26.6
100°	155.8	172.9	41.8	25.7	26.6
102.5°	218.6	230.0	241.4	27.6	27.6
105°	286.0	291.7	296.5	305.0	270.8
107.5°	347.8	350.6	357.3	362.0	365.9
110°	410.5	413.4	419.1	421.0	423.8

TEST NUMBER: P1025521

CATALOG NUMBER: S124DIP-B575D1035UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	471.3	477.0	478.9	478.0	481.8
115°	534.0	536.9	535.9	537.8	537.8
117.5°	590.1	593.9	596.8	595.8	595.8
120°	647.1	650.9	650.0	651.9	650.0
122.5°	700.3	702.2	704.1	705.1	703.2
125°	750.7	754.5	752.6	755.5	756.4
127.5°	799.2	800.1	804.9	803.9	803.0
130°	845.7	846.7	849.5	850.5	850.5
132.5°	888.5	890.4	894.2	895.1	894.2
135°	931.3	930.3	934.1	936.0	937.9
137.5°	969.3	969.3	974.0	975.9	975.0
140°	1006.3	1008.2	1010.1	1013.0	1013.9
142.5°	1039.6	1043.4	1044.3	1046.2	1046.2
145°	1073.8	1076.6	1076.6	1077.6	1079.5
147.5°	1100.4	1106.1	1105.2	1106.1	1107.1
150°	1129.9	1133.7	1132.7	1132.7	1133.7
152.5°	1154.6	1157.4	1155.5	1157.4	1156.5
155°	1177.4	1178.3	1175.5	1179.3	1176.4
157.5°	1197.3	1197.3	1193.5	1198.3	1193.5
160°	1214.4	1211.6	1210.6	1216.3	1210.6
162.5°	1229.6	1225.8	1224.9	1230.6	1223.9
165°	1242.0	1237.2	1237.2	1244.8	1236.3
167.5°	1252.4	1247.7	1246.7	1255.3	1245.8
170°	1261.0	1255.3	1256.2	1263.8	1254.3
172.5°	1266.7	1261.0	1261.9	1269.6	1259.1
175°	1270.5	1264.8	1265.7	1274.3	1262.9
177.5°	1273.4	1266.7	1268.6	1276.2	1264.8
180°	1270.5	1270.5	1270.5	1270.5	1270.5

(END OF REPORT)