

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: P1025485

Luminaire Tested: S124DIP-B575D1035UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025485
REPORT IS A COMBINATION OF REPORTS P996025 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB27-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

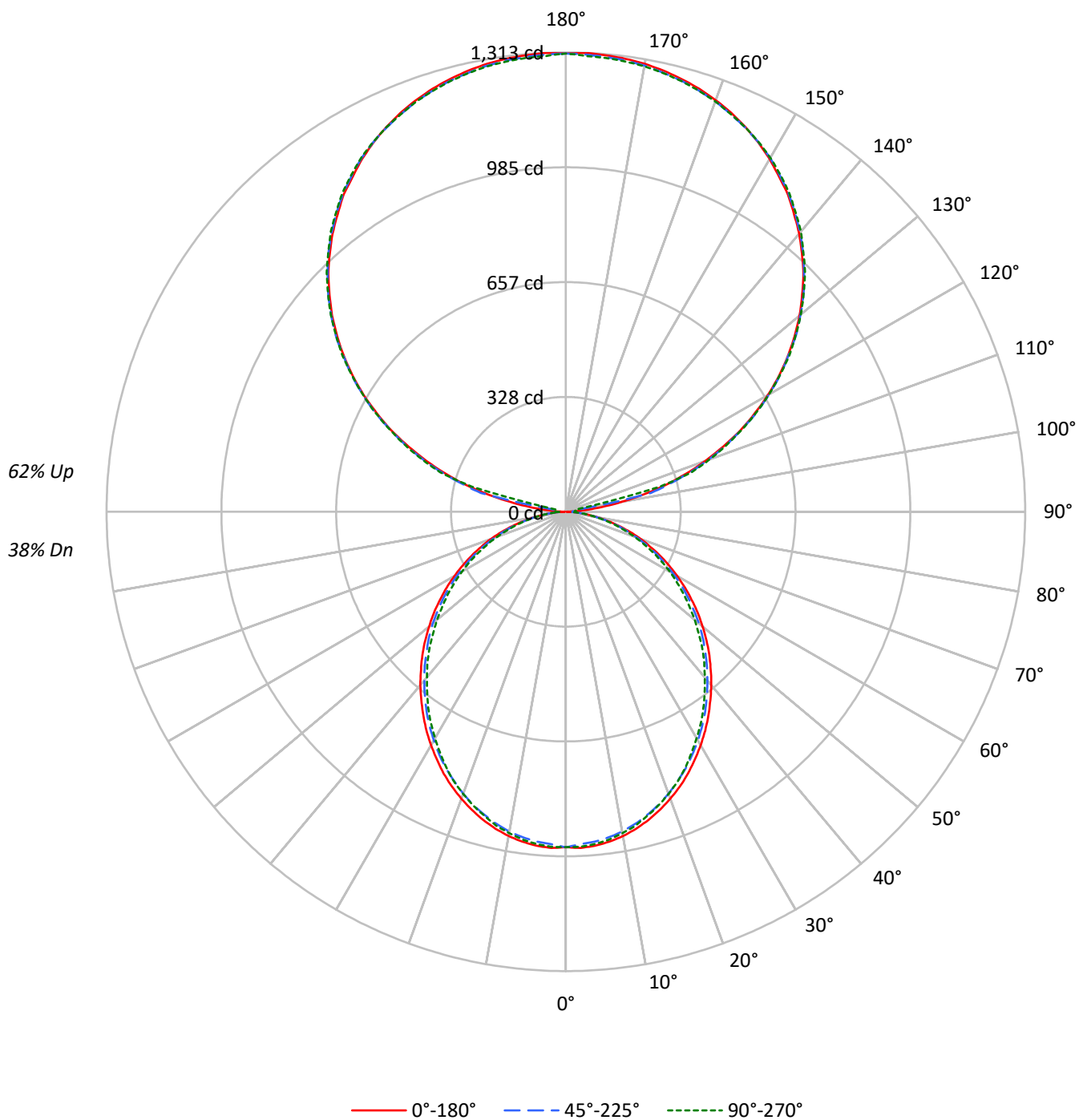
Lumens per Lamp: N/A
Luminaire Lumens: 6517.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7819	7819	7819
5°	7826	7594	7603
10°	7759	7383	7331
15°	7648	7133	7025
20°	7506	6861	6708
25°	7345	6575	6366
30°	7153	6265	5990
35°	6953	5948	5628
40°	6745	5607	5242
45°	6527	5265	4882
50°	6284	4933	4482
55°	6022	4545	4086
60°	5753	4121	3673
65°	5445	3683	3208
70°	5091	3156	2709
75°	4562	2543	2169
80°	3887	1839	1527
85°	3020	1025	822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.4
10°-20°	254.6	3.9
20°-30°	374.7	5.7
30°-40°	435.6	6.7
40°-50°	435.5	6.7
50°-60°	380.9	5.8
60°-70°	282.8	4.3
70°-80°	160.5	2.5
80°-90°	48.7	0.7
90°-100°	43.5	0.7
100°-110°	286.4	4.4
110°-120°	546.8	8.4
120°-130°	694.2	10.7
130°-140°	742.6	11.4
140°-150°	694.4	10.7
150°-160°	560.0	8.6
160°-170°	361.1	5.5
170°-180°	124.5	1.9
0°-30°	719.7	11.0
0°-40°	1155.3	17.7
0°-60°	1971.8	30.3
0°-90°	2463.7	37.8
90°-120°	876.6	13.5
90°-150°	3007.8	46.2
90°-180°	4053.0	62.2
0°-180°	6517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	958	955	946	955	953	91
15°	912	909	897	902	900	257
25°	826	820	810	810	808	380
35°	711	705	694	689	685	444
45°	580	575	562	554	552	447
55°	439	436	426	416	412	393
65°	297	294	286	278	274	294
75°	158	154	151	148	147	168
85°	42	42	40	40	39	45
90°	3	14	22	27	29	6
95°	54	21	22	27	28	66
105°	295	301	306	314	279	309
115°	551	554	553	554	554	542
125°	774	778	776	779	780	691
135°	960	959	963	965	967	740
145°	1107	1110	1110	1111	1113	692
155°	1214	1215	1212	1216	1213	560
165°	1280	1276	1276	1283	1275	362
175°	1310	1304	1305	1314	1302	125
180°	1310	1310	1310	1310	1310	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.8	958.8	958.8	958.8	958.8
2.5°	961.9	959.6	951.1	958.8	958.1
5°	958.1	955.0	946.5	955.0	953.4
7.5°	951.1	948.1	938.8	945.8	945.0
10°	941.2	938.1	928.1	934.2	932.7
12.5°	928.1	925.0	914.3	921.2	918.9
15°	912.0	908.9	897.4	902.0	899.7
17.5°	893.5	889.7	878.9	882.0	880.5
20°	872.8	868.9	857.4	859.7	858.2
22.5°	850.5	845.1	833.6	838.2	835.1
25°	825.9	820.5	809.8	810.5	807.5
27.5°	798.2	792.9	782.9	781.3	777.5
30°	770.6	764.4	754.5	751.4	747.5
32.5°	741.4	736.0	725.3	721.4	717.6
35°	710.7	705.3	694.5	689.2	685.3
37.5°	678.4	673.8	662.3	656.9	651.5
40°	646.9	640.8	629.2	621.5	617.7
42.5°	613.1	610.0	597.0	587.7	585.4
45°	580.1	574.7	562.4	553.9	551.6
47.5°	545.5	541.6	530.1	520.9	514.8
50°	510.1	507.1	496.3	485.6	480.9
52.5°	475.6	471.7	460.2	451.0	444.8
55°	438.7	436.4	425.6	416.4	411.8
57.5°	404.1	401.8	391.1	381.8	377.2
60°	368.0	364.2	354.2	347.3	343.4
62.5°	332.7	329.6	318.8	312.7	308.9
65°	297.3	293.5	285.8	278.1	274.3
67.5°	261.2	258.1	250.5	242.8	242.0
70°	228.2	222.8	216.7	210.5	208.2
72.5°	192.8	187.5	182.9	178.2	175.9
75°	158.3	154.4	150.6	147.5	146.7
77.5°	124.5	122.9	119.1	118.3	116.0
80°	94.5	92.2	90.7	89.1	88.4
82.5°	65.3	64.5	64.5	63.8	63.0
85°	41.5	41.5	40.0	40.0	39.2
87.5°	20.0	19.2	18.4	18.4	18.4
90°	2.9	13.7	21.6	27.4	29.4
92.5°	14.7	12.7	20.6	26.5	26.5
95°	53.9	20.6	21.6	27.4	28.4
97.5°	102.9	124.4	21.6	26.5	27.4
100°	160.7	178.3	43.1	26.5	27.4
102.5°	225.3	237.1	248.9	28.4	28.4
105°	294.9	300.8	305.7	314.5	279.2
107.5°	358.6	361.5	368.4	373.3	377.2
110°	423.2	426.2	432.1	434.0	437.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	485.9	491.8	493.8	492.8	496.7
115°	550.6	553.5	552.6	554.5	554.5
117.5°	608.4	612.3	615.3	614.3	614.3
120°	667.2	671.1	670.1	672.1	670.1
122.5°	722.1	724.0	726.0	727.0	725.0
125°	774.0	777.9	775.9	778.9	779.9
127.5°	824.0	824.9	829.8	828.9	827.9
130°	872.0	872.9	875.9	876.9	876.9
132.5°	916.0	918.0	921.9	922.9	921.9
135°	960.1	959.2	963.1	965.0	967.0
137.5°	999.3	999.3	1004.2	1006.2	1005.2
140°	1037.5	1039.5	1041.5	1044.4	1045.4
142.5°	1071.8	1075.7	1076.7	1078.7	1078.7
145°	1107.1	1110.0	1110.0	1111.0	1113.0
147.5°	1134.5	1140.4	1139.4	1140.4	1141.4
150°	1164.9	1168.8	1167.8	1167.8	1168.8
152.5°	1190.4	1193.3	1191.4	1193.3	1192.3
155°	1213.9	1214.9	1211.9	1215.8	1212.9
157.5°	1234.5	1234.5	1230.5	1235.4	1230.5
160°	1252.1	1249.2	1248.2	1254.1	1248.2
162.5°	1267.8	1263.9	1262.9	1268.8	1261.9
165°	1280.5	1275.6	1275.6	1283.4	1274.6
167.5°	1291.3	1286.4	1285.4	1294.2	1284.4
170°	1300.1	1294.2	1295.2	1303.0	1293.2
172.5°	1306.0	1300.1	1301.1	1308.9	1298.1
175°	1309.9	1304.0	1305.0	1313.8	1302.1
177.5°	1312.8	1306.0	1307.9	1315.8	1304.0
180°	1309.9	1309.9	1309.9	1309.9	1309.9

(END OF REPORT)