

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: P1026984

Luminaire Tested: S125DIP-B850D1090UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026984
REPORT IS A COMBINATION OF REPORTS P1002433 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

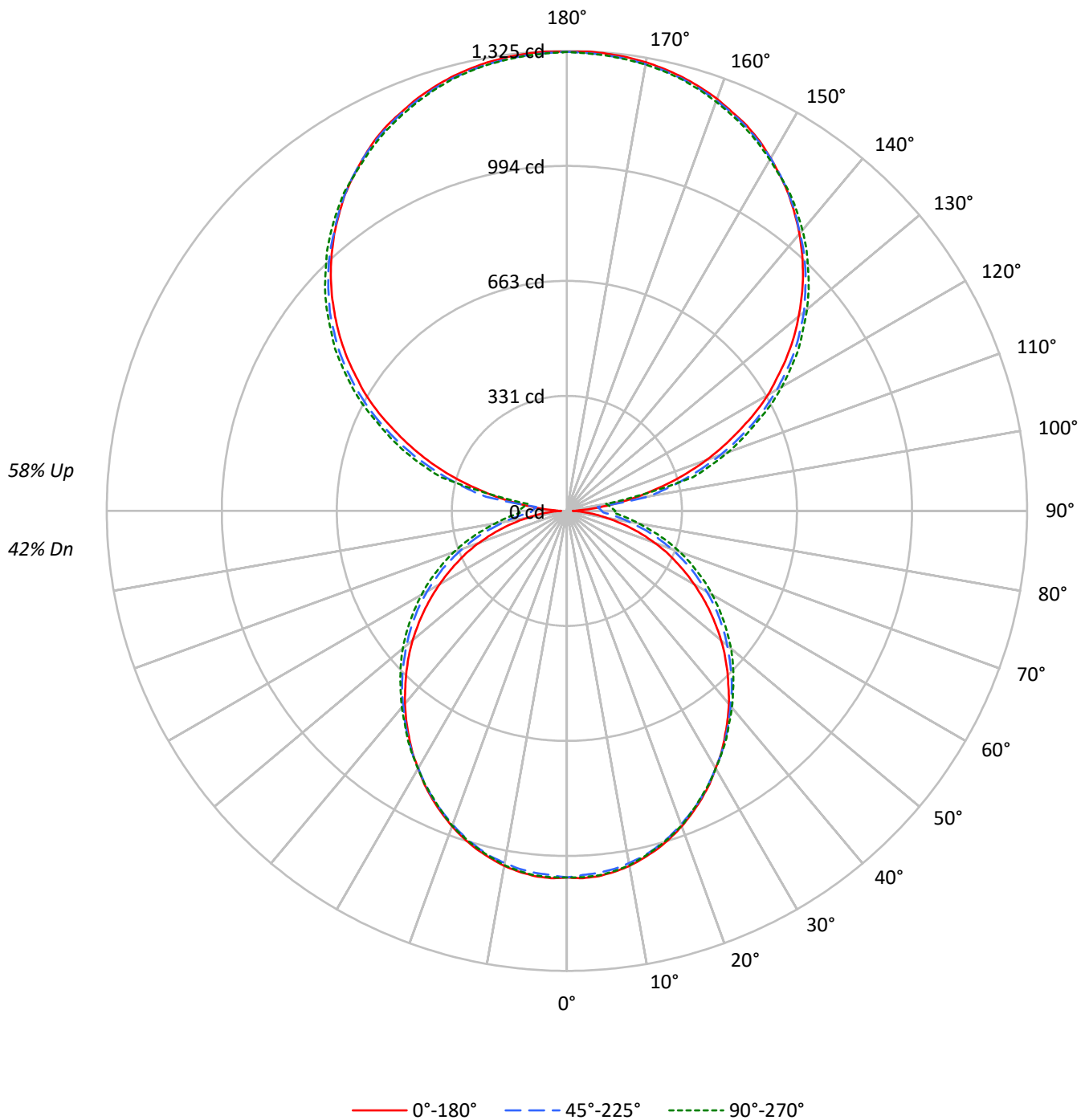
Lumens per Lamp: N/A
Luminaire Lumens: 7334.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V): 120
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	91	87	83	87	83	79	76	68	66	63	55	53	51	42	41	40
2	87	79	73	67	79	72	67	62	59	55	52	48	45	42	37	35	33
3	79	69	62	56	71	63	57	52	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	29	26	24
5	66	54	46	40	60	50	43	37	41	36	32	33	29	26	26	23	21
6	61	49	40	35	55	45	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	27	47	36	30	25	30	25	21	25	21	18	19	17	14
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.4
10°-20°	283.6	3.9
20°-30°	421.8	5.8
30°-40°	499.5	6.8
40°-50°	516.4	7.0
50°-60°	475.7	6.5
60°-70°	384.6	5.2
70°-80°	257.3	3.5
80°-90°	135.0	1.8
90°-100°	119.8	1.6
100°-110°	353.6	4.8
110°-120°	574.3	7.8
120°-130°	710.6	9.7
130°-140°	750.9	10.2
140°-150°	698.0	9.5
150°-160°	563.1	7.7
160°-170°	364.2	5.0
170°-180°	125.6	1.7
0°-30°	805.4	11.0
0°-40°	1304.9	17.8
0°-60°	2297.1	31.3
0°-90°	3073.9	41.9
90°-120°	1047.7	14.3
90°-150°	3207.2	43.7
90°-180°	4260.0	58.1
0°-180°	7334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	18	58	101	129	139	14
95°	69	93	91	119	126	79
105°	297	318	349	370	376	315
115°	547	559	587	602	602	542
125°	773	779	800	813	815	691
135°	962	966	972	983	982	741
145°	1113	1114	1114	1120	1119	696
155°	1225	1219	1221	1224	1216	564
165°	1293	1287	1288	1294	1286	365
175°	1322	1316	1317	1325	1316	126
180°	1322	1322	1322	1322	1322	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	17.6	58.5	100.6	129.3	139.4
92.5°	33.1	54.3	96.4	124.1	132.4
95°	69.4	93.3	91.3	118.9	126.2
97.5°	117.3	148.0	89.0	112.8	121.0
100°	175.1	199.7	236.8	112.5	114.8
102.5°	233.8	257.4	291.4	314.1	238.0
105°	297.4	317.9	348.9	369.6	376.0
107.5°	363.1	377.6	409.5	431.2	433.5
110°	426.6	439.1	470.1	486.8	495.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.4	499.7	528.6	543.3	548.6
115°	547.2	559.4	587.2	601.9	602.2
117.5°	609.9	615.1	644.8	656.5	661.9
120°	668.7	670.8	697.5	713.2	714.5
122.5°	719.5	725.5	749.3	763.8	764.2
125°	773.4	779.3	800.0	812.7	814.8
127.5°	824.4	828.3	844.9	858.4	856.8
130°	871.4	875.3	890.8	902.3	902.5
132.5°	917.4	923.3	930.7	945.2	944.5
135°	961.5	966.3	971.7	983.1	982.4
137.5°	1002.7	1007.5	1009.7	1022.1	1021.3
140°	1041.8	1043.7	1043.9	1057.2	1055.4
142.5°	1078.0	1078.0	1080.0	1089.3	1087.6
145°	1113.3	1114.3	1114.3	1120.5	1118.7
147.5°	1143.7	1143.7	1144.7	1147.7	1142.9
150°	1173.1	1171.1	1173.1	1175.0	1168.2
152.5°	1201.5	1196.6	1198.6	1200.5	1193.7
155°	1225.0	1219.1	1221.1	1224.0	1216.2
157.5°	1243.6	1240.7	1240.7	1243.6	1235.8
160°	1263.2	1257.4	1258.3	1262.3	1254.4
162.5°	1278.9	1273.0	1274.0	1279.9	1271.1
165°	1292.6	1286.8	1287.7	1293.6	1285.8
167.5°	1303.4	1297.5	1298.5	1305.4	1296.6
170°	1312.2	1305.4	1306.4	1314.2	1305.4
172.5°	1318.1	1311.3	1313.2	1320.1	1311.3
175°	1322.0	1316.2	1317.1	1325.0	1316.2
177.5°	1325.0	1319.1	1320.1	1326.9	1319.1
180°	1322.0	1322.0	1322.0	1322.0	1322.0

(END OF REPORT)