

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: P1028213

Luminaire Tested: S125DIP-B850D1090UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028213
REPORT IS A COMBINATION OF REPORTS P1002455 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

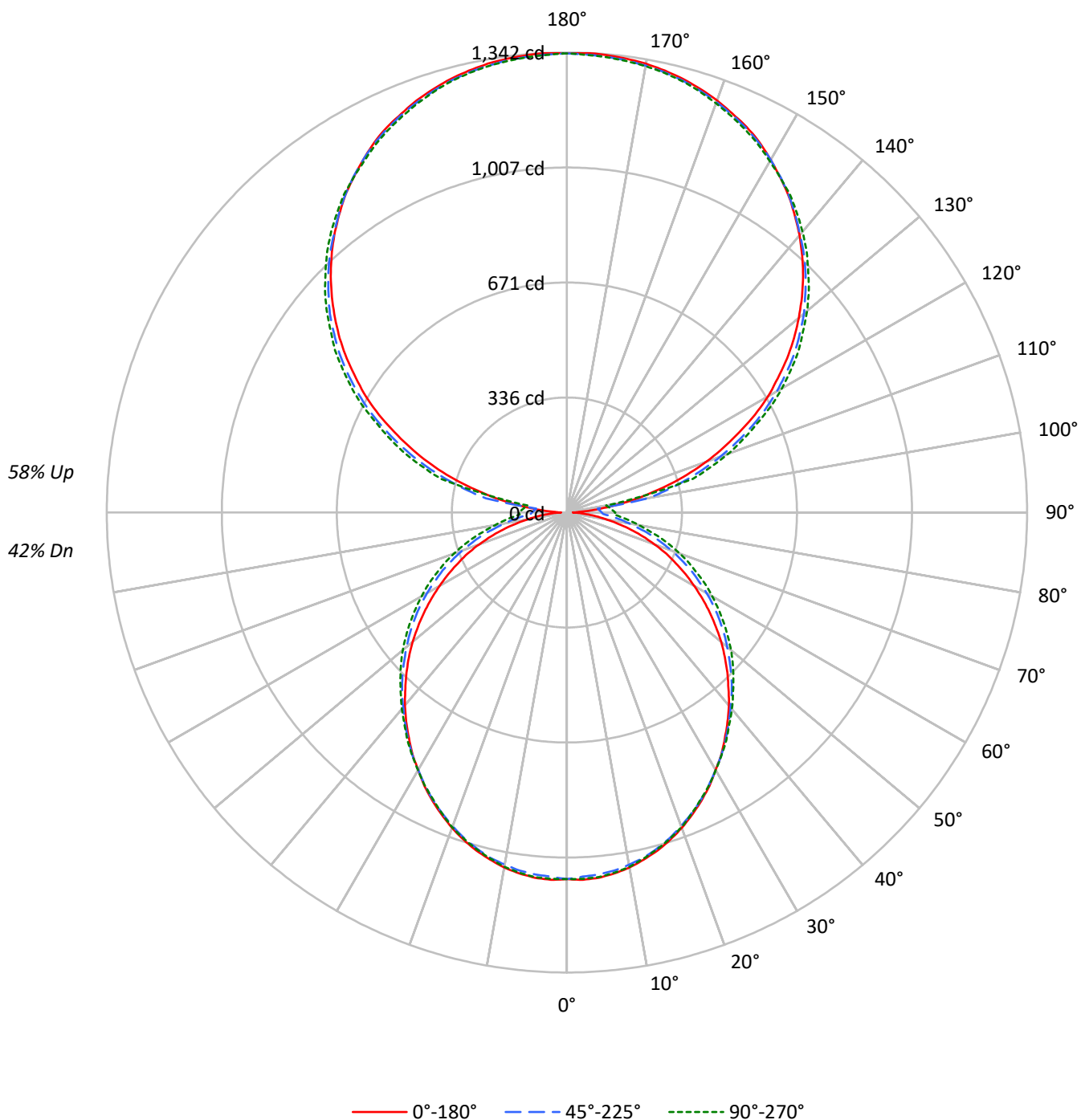
Lumens per Lamp: N/A
Luminaire Lumens: 7429.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
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°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.4
10°-20°	287.3	3.9
20°-30°	427.2	5.8
30°-40°	505.9	6.8
40°-50°	523.1	7.0
50°-60°	481.9	6.5
60°-70°	389.5	5.2
70°-80°	260.6	3.5
80°-90°	136.7	1.8
90°-100°	121.3	1.6
100°-110°	358.2	4.8
110°-120°	581.8	7.8
120°-130°	719.8	9.7
130°-140°	760.7	10.2
140°-150°	707.1	9.5
150°-160°	570.5	7.7
160°-170°	368.9	5.0
170°-180°	127.2	1.7
0°-30°	815.7	11.0
0°-40°	1321.6	17.8
0°-60°	2326.6	31.3
0°-90°	3113.4	41.9
90°-120°	1061.3	14.3
90°-150°	3248.9	43.7
90°-180°	4316.0	58.1
0°-180°	7429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	59	102	131	141	15
95°	70	94	92	120	128	80
105°	301	322	354	374	381	319
115°	554	567	595	610	610	550
125°	784	789	810	823	825	700
135°	974	979	984	996	995	751
145°	1128	1129	1129	1135	1133	705
155°	1241	1235	1237	1240	1232	572
165°	1310	1304	1304	1310	1303	370
175°	1339	1333	1334	1342	1333	128
180°	1339	1339	1339	1339	1339	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	17.8	59.2	101.9	130.9	141.2
92.5°	33.6	55.0	97.7	125.6	134.0
95°	70.2	94.5	92.4	120.4	127.7
97.5°	118.8	149.9	90.2	114.3	122.5
100°	177.3	202.4	239.8	113.9	116.2
102.5°	236.9	260.7	295.2	318.2	241.1
105°	301.3	322.1	353.6	374.5	380.9
107.5°	367.8	382.5	414.9	436.8	439.1
110°	432.2	444.8	476.2	493.1	501.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.8	506.3	535.5	550.5	555.8
115°	554.3	566.6	594.9	609.8	610.2
117.5°	617.8	623.1	653.2	665.1	670.5
120°	677.3	679.5	706.6	722.4	723.8
122.5°	728.9	734.9	759.0	773.8	774.2
125°	783.5	789.4	810.4	823.2	825.4
127.5°	835.1	839.0	855.8	869.6	867.9
130°	882.7	886.7	902.4	914.1	914.3
132.5°	929.4	935.3	942.9	957.6	956.8
135°	974.1	978.9	984.3	995.9	995.3
137.5°	1015.8	1020.6	1022.8	1035.4	1034.7
140°	1055.4	1057.3	1057.4	1070.9	1069.2
142.5°	1092.1	1092.1	1094.1	1103.5	1101.7
145°	1127.8	1128.8	1128.8	1135.0	1133.3
147.5°	1158.6	1158.6	1159.6	1162.7	1157.8
150°	1188.4	1186.4	1188.4	1190.4	1183.4
152.5°	1217.2	1212.2	1214.2	1216.2	1209.2
155°	1241.0	1235.0	1237.0	1240.0	1232.1
157.5°	1259.9	1256.9	1256.9	1259.9	1251.9
160°	1279.7	1273.8	1274.8	1278.7	1270.8
162.5°	1295.6	1289.6	1290.6	1296.6	1287.7
165°	1309.5	1303.5	1304.5	1310.5	1302.6
167.5°	1320.4	1314.5	1315.5	1322.4	1313.5
170°	1329.4	1322.4	1323.4	1331.3	1322.4
172.5°	1335.3	1328.4	1330.4	1337.3	1328.4
175°	1339.3	1333.3	1334.3	1342.3	1333.3
177.5°	1342.3	1336.3	1337.3	1344.3	1336.3
180°	1339.3	1339.3	1339.3	1339.3	1339.3

(END OF REPORT)