

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: P1028204

Luminaire Tested: S125DIP-B850D1090UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028204
REPORT IS A COMBINATION OF REPORTS P1002446 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

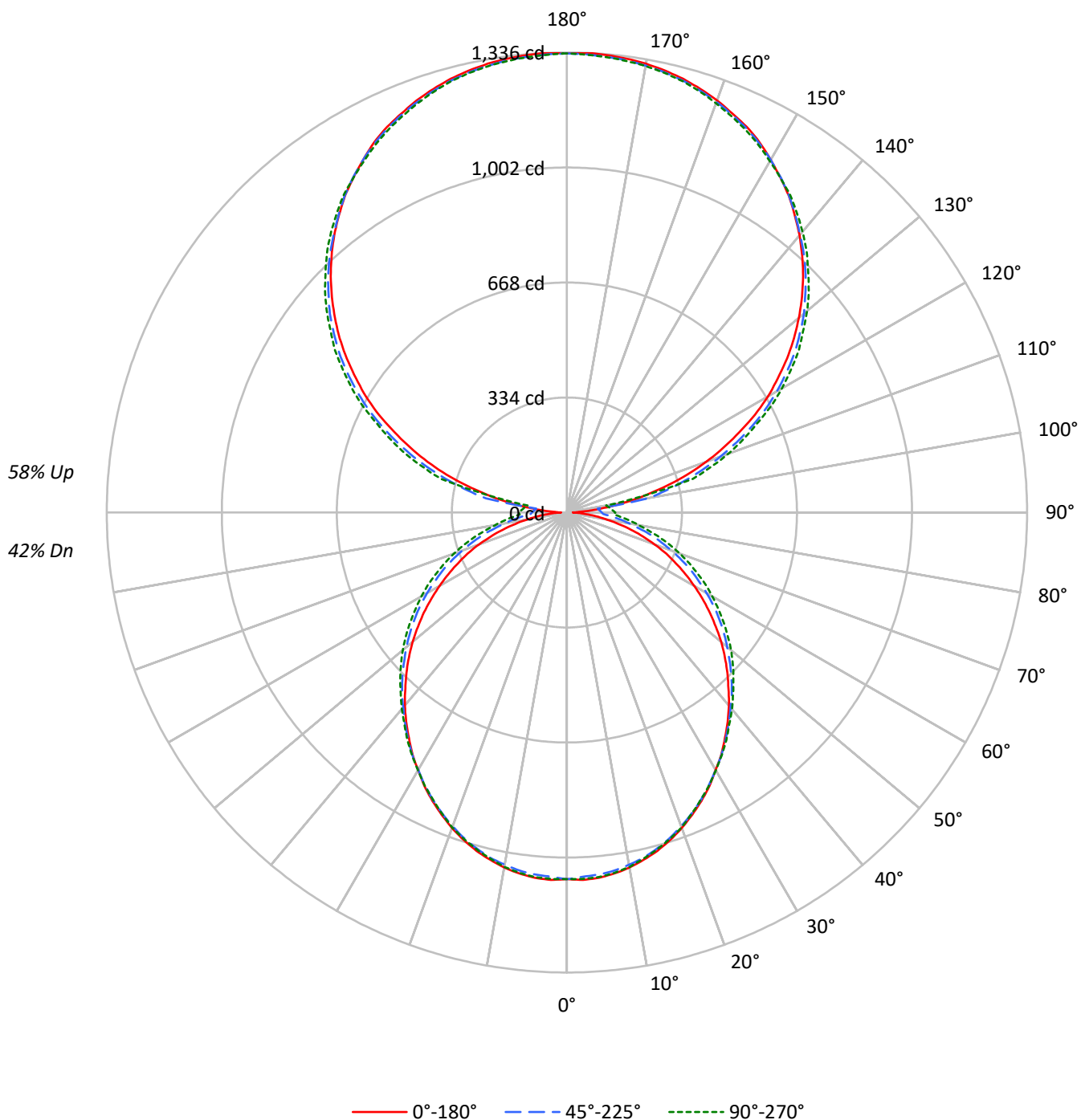
Lumens per Lamp: N/A
Luminaire Lumens: 7397.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
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°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.4
10°-20°	286.1	3.9
20°-30°	425.4	5.8
30°-40°	503.8	6.8
40°-50°	520.9	7.0
50°-60°	479.8	6.5
60°-70°	387.9	5.2
70°-80°	259.5	3.5
80°-90°	136.1	1.8
90°-100°	120.8	1.6
100°-110°	356.6	4.8
110°-120°	579.2	7.8
120°-130°	716.7	9.7
130°-140°	757.4	10.2
140°-150°	704.0	9.5
150°-160°	568.0	7.7
160°-170°	367.3	5.0
170°-180°	126.7	1.7
0°-30°	812.3	11.0
0°-40°	1316.1	17.8
0°-60°	2316.7	31.3
0°-90°	3100.2	41.9
90°-120°	1056.7	14.3
90°-150°	3234.8	43.7
90°-180°	4297.0	58.1
0°-180°	7397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	18	59	101	130	141	14
95°	70	94	92	120	127	80
105°	300	321	352	373	379	318
115°	552	564	592	607	608	547
125°	780	786	807	820	822	697
135°	970	975	980	992	991	748
145°	1123	1124	1124	1130	1128	702
155°	1236	1230	1232	1235	1227	569
165°	1304	1298	1299	1305	1297	368
175°	1333	1328	1328	1336	1328	127
180°	1333	1333	1333	1333	1333	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	17.7	59.0	101.4	130.4	140.6
92.5°	33.4	54.8	97.2	125.2	133.4
95°	69.9	94.1	92.0	120.0	127.3
97.5°	118.3	149.3	89.8	113.8	122.1
100°	176.6	201.4	238.8	113.4	115.8
102.5°	235.8	259.6	293.9	316.8	240.0
105°	300.0	320.7	352.0	372.9	379.2
107.5°	366.2	380.8	413.0	434.9	437.2
110°	430.4	442.9	474.1	491.0	499.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	491.6	504.0	533.2	548.0	553.4
115°	551.9	564.2	592.3	607.1	607.5
117.5°	615.1	620.3	650.3	662.2	667.5
120°	674.4	676.6	703.6	719.3	720.6
122.5°	725.8	731.7	755.7	770.4	770.8
125°	780.1	786.0	806.9	819.6	821.8
127.5°	831.4	835.4	852.1	865.8	864.2
130°	878.9	882.8	898.4	910.0	910.3
132.5°	925.3	931.3	938.7	953.3	952.5
135°	969.8	974.6	980.1	991.6	990.8
137.5°	1011.3	1016.1	1018.4	1030.9	1030.1
140°	1050.7	1052.7	1052.8	1066.3	1064.5
142.5°	1087.3	1087.3	1089.3	1098.7	1097.0
145°	1122.9	1123.9	1123.9	1130.1	1128.3
147.5°	1153.5	1153.5	1154.5	1157.6	1152.8
150°	1183.2	1181.2	1183.2	1185.2	1178.3
152.5°	1211.9	1206.9	1208.9	1210.9	1203.9
155°	1235.6	1229.6	1231.6	1234.6	1226.7
157.5°	1254.4	1251.4	1251.4	1254.4	1246.4
160°	1274.1	1268.2	1269.2	1273.1	1265.2
162.5°	1289.9	1284.0	1285.0	1290.9	1282.0
165°	1303.8	1297.8	1298.8	1304.8	1296.9
167.5°	1314.7	1308.7	1309.7	1316.6	1307.7
170°	1323.5	1316.6	1317.6	1325.5	1316.6
172.5°	1329.5	1322.6	1324.5	1331.5	1322.6
175°	1333.4	1327.5	1328.5	1336.4	1327.5
177.5°	1336.4	1330.5	1331.5	1338.4	1330.5
180°	1333.4	1333.4	1333.4	1333.4	1333.4

(END OF REPORT)