

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: P1026989

Luminaire Tested: S125DIP-B850D1090UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026989
REPORT IS A COMBINATION OF REPORTS P1002438 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-F_2700K
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

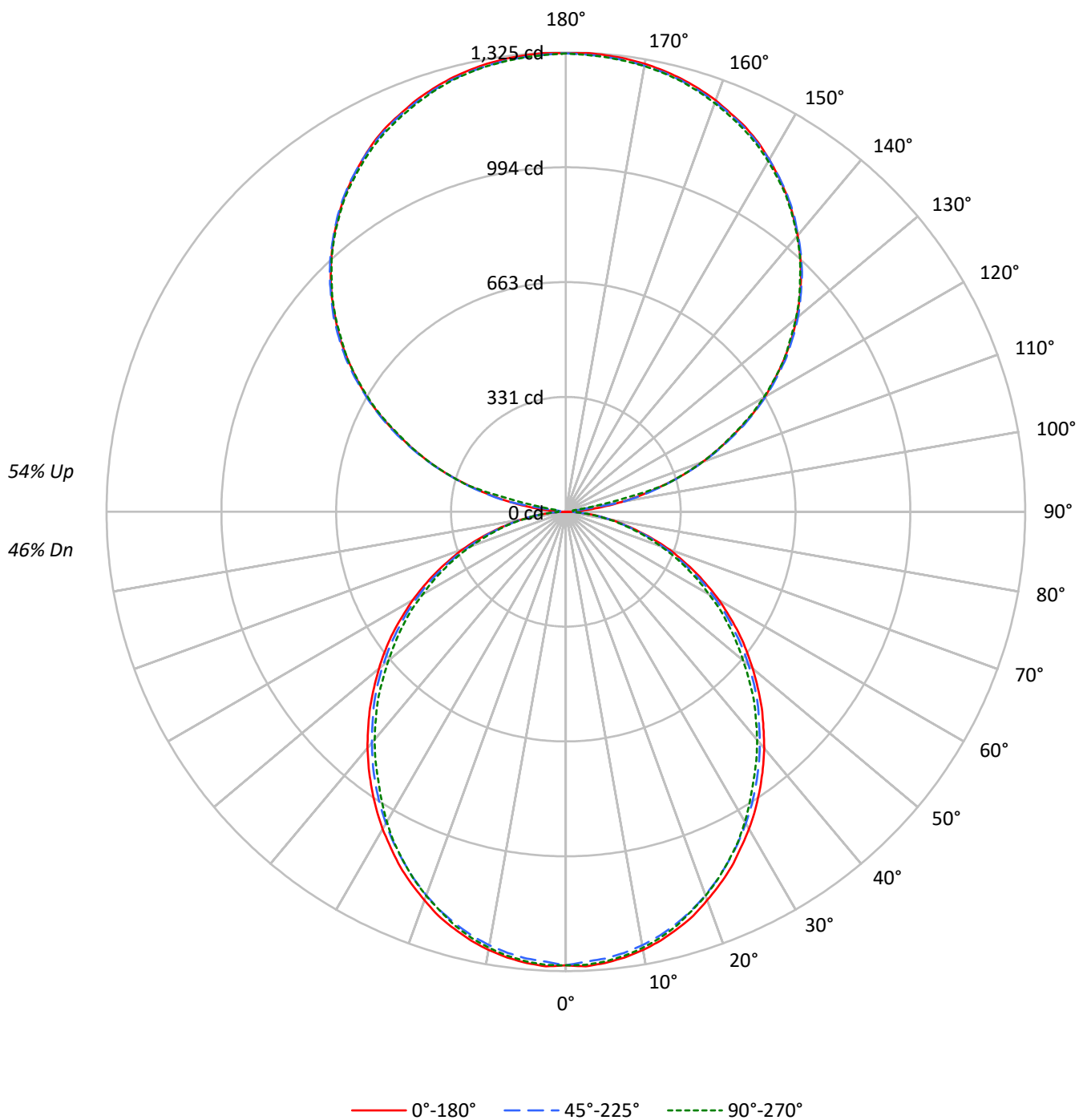
Lumens per Lamp: N/A
Luminaire Lumens: 7468.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46		
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38		
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	39	37	32		
3	80	71	64	58	73	65	59	54	55	50	46	45	41	39	36	33	31	27		
4	73	63	55	49	67	58	51	46	49	43	39	40	36	33	32	29	27	23		
5	67	56	48	42	62	52	44	39	43	38	34	36	32	29	29	26	24	20		
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21	18		
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16		
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14		
9	49	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15	13		
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8382	8382	8382
5°	8383	8187	8203
10°	8313	7999	7975
15°	8204	7775	7706
20°	8056	7515	7397
25°	7898	7231	7066
30°	7707	6935	6718
35°	7503	6625	6328
40°	7292	6297	5981
45°	7063	5978	5613
50°	6812	5616	5184
55°	6564	5216	4788
60°	6268	4794	4329
65°	5912	4307	3854
70°	5551	3746	3306
75°	4945	3084	2673
80°	4214	2304	1965
85°	3253	1364	1084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.7
10°-20°	348.7	4.7
20°-30°	514.8	6.9
30°-40°	600.6	8.0
40°-50°	603.2	8.1
50°-60°	529.5	7.1
60°-70°	394.4	5.3
70°-80°	225.2	3.0
80°-90°	67.0	0.9
90°-100°	44.9	0.6
100°-110°	298.4	4.0
110°-120°	537.3	7.2
120°-130°	689.7	9.2
130°-140°	741.8	9.9
140°-150°	696.2	9.3
150°-160°	563.1	7.5
160°-170°	364.2	4.9
170°-180°	125.6	1.7
0°-30°	986.9	13.2
0°-40°	1587.5	21.3
0°-60°	2720.3	36.4
0°-90°	3407.0	45.6
90°-120°	880.5	11.8
90°-150°	3008.1	40.3
90°-180°	4061.0	54.4
0°-180°	7468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1306	1304	1294	1303	1302	124
15°	1245	1242	1231	1236	1236	351
25°	1130	1125	1112	1114	1110	520
35°	976	972	957	952	944	611
45°	799	795	782	770	767	616
55°	609	606	591	582	574	543
65°	411	409	397	388	384	408
75°	218	216	211	208	204	232
85°	57	58	58	57	55	62
90°	1	9	16	21	24	7
95°	56	53	16	21	21	68
105°	288	292	292	292	291	305
115°	541	546	547	543	537	536
125°	769	776	776	772	769	687
135°	959	965	963	961	956	740
145°	1112	1114	1114	1115	1109	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	

TEST NUMBER: P1026989

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1312.4	1309.3	1298.9	1309.3	1308.2
5°	1306.2	1304.1	1293.7	1303.1	1302.0
7.5°	1296.8	1294.8	1283.4	1292.7	1291.7
10°	1283.4	1281.3	1269.9	1278.2	1277.2
12.5°	1266.8	1262.7	1252.3	1258.6	1258.6
15°	1245.1	1242.0	1230.6	1235.8	1235.8
17.5°	1222.3	1217.2	1205.8	1212.0	1206.8
20°	1192.3	1190.2	1176.8	1184.0	1178.9
22.5°	1162.3	1158.2	1145.7	1149.9	1146.8
25°	1130.2	1125.0	1111.6	1113.7	1110.5
27.5°	1093.0	1089.8	1076.4	1077.4	1074.3
30°	1056.7	1053.6	1038.1	1036.0	1032.9
32.5°	1017.4	1012.2	998.8	994.6	988.4
35°	976.0	971.9	957.4	952.2	943.9
37.5°	933.6	928.4	914.9	907.7	902.5
40°	890.1	884.9	870.4	861.1	858.0
42.5°	843.5	839.4	824.9	816.6	811.4
45°	799.0	794.9	782.5	770.0	766.9
47.5°	750.4	751.4	735.9	723.5	716.2
50°	703.8	700.7	688.3	674.8	667.6
52.5°	656.2	654.1	640.7	629.3	621.0
55°	608.6	605.5	591.0	581.7	574.4
57.5°	557.9	556.8	544.4	532.0	528.9
60°	510.3	506.1	494.7	484.4	477.1
62.5°	460.6	457.5	448.2	436.8	431.6
65°	410.9	408.8	397.4	388.1	384.0
67.5°	362.2	358.1	349.8	341.5	339.5
70°	316.7	311.5	302.2	296.0	291.9
72.5°	267.0	263.9	258.7	251.5	247.4
75°	218.4	216.3	211.1	208.0	203.9
77.5°	172.8	171.8	168.7	166.6	163.5
80°	130.4	130.4	128.3	127.3	125.2
82.5°	93.1	91.1	91.1	89.0	89.0
85°	56.9	58.0	58.0	56.9	54.9
87.5°	27.9	27.9	26.9	26.9	24.8
90°	1.0	8.8	15.7	20.6	23.5
92.5°	18.6	9.8	15.7	20.6	21.6
95°	55.9	52.9	15.7	20.6	20.6
97.5°	104.9	110.7	17.6	19.6	20.6
100°	163.7	166.6	170.5	24.5	20.6
102.5°	223.4	227.4	229.3	231.3	149.0
105°	288.1	292.0	292.0	292.0	291.1
107.5°	354.8	354.8	356.7	357.7	353.8
110°	419.4	419.4	421.4	418.5	419.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	480.2	483.1	484.1	480.2	478.2
115°	541.0	545.9	546.8	542.9	537.0
117.5°	604.7	604.7	608.6	602.7	600.8
120°	663.5	662.5	665.4	663.5	658.6
122.5°	715.4	720.3	721.3	719.3	713.5
125°	769.3	776.2	776.2	772.3	769.3
127.5°	821.3	826.2	825.2	823.2	815.4
130°	868.3	873.2	874.2	871.2	866.3
132.5°	915.3	921.2	918.3	918.3	913.4
135°	959.4	965.3	963.4	961.4	955.5
137.5°	1000.6	1006.5	1004.5	1004.5	999.6
140°	1040.8	1042.7	1041.8	1043.7	1037.8
142.5°	1077.0	1078.0	1080.0	1080.0	1074.1
145°	1112.3	1114.3	1114.3	1115.3	1109.4
147.5°	1143.7	1143.7	1144.7	1145.6	1138.8
150°	1173.1	1171.1	1173.1	1175.0	1167.2
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)