

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: P1028227

Luminaire Tested: S125DIP-B850D1090UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028227
REPORT IS A COMBINATION OF REPORTS P1002469 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

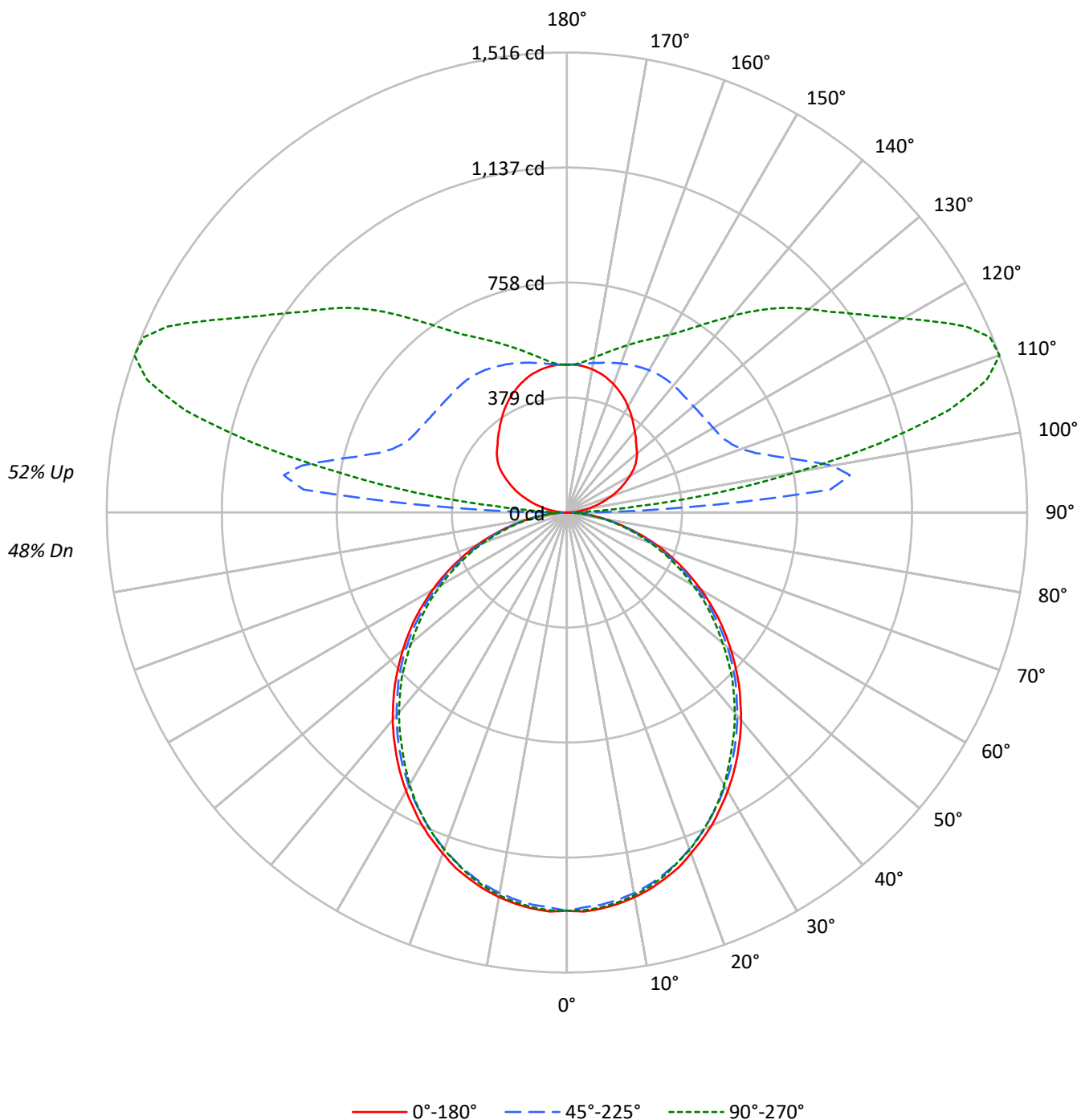
Lumens per Lamp: N/A
Luminaire Lumens: 7085.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
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

TEST NUMBER: P1028227

CATALOG NUMBER: S125DIP-B850D1090UB40-4F0-XX-W2A-F4

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	82	79	72	70	67	60	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34	34	34
3	81	71	64	58	74	66	59	54	56	51	47	46	43	40	37	35	33	29	29	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	25	21	21	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	13	13	13
10	47	35	27	22	43	32	26	21	28	22	19	24	19	16	20	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8407	8407	8407
5°	8407	8211	8227
10°	8338	8023	7998
15°	8228	7798	7728
20°	8080	7537	7418
25°	7921	7252	7087
30°	7729	6955	6738
35°	7525	6645	6347
40°	7313	6316	5999
45°	7084	5996	5629
50°	6833	5632	5198
55°	6583	5231	4802
60°	6285	4809	4341
65°	5930	4320	3865
70°	5567	3757	3315
75°	4959	3095	2681
80°	4227	2311	1972
85°	3265	1366	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7084 cd/sqm

TEST NUMBER: P1028227

CATALOG NUMBER: S125DIP-B850D1090UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.7
10°-20°	349.7	4.9
20°-30°	516.3	7.3
30°-40°	602.4	8.5
40°-50°	605.0	8.5
50°-60°	531.1	7.5
60°-70°	395.6	5.6
70°-80°	225.9	3.2
80°-90°	67.2	0.9
90°-100°	367.0	5.2
100°-110°	762.4	10.8
110°-120°	712.1	10.1
120°-130°	576.2	8.1
130°-140°	463.0	6.5
140°-150°	349.5	4.9
150°-160°	246.1	3.5
160°-170°	145.0	2.0
170°-180°	47.2	0.7
0°-30°	989.8	14.0
0°-40°	1592.2	22.5
0°-60°	2728.3	38.5
0°-90°	3416.9	48.2
90°-120°	1841.6	26.0
90°-150°	3230.3	45.6
90°-180°	3669.0	51.8
0°-180°	7085.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1310	1308	1298	1307	1306	124
15°	1249	1246	1234	1239	1239	352
25°	1134	1128	1115	1117	1114	522
35°	979	975	960	955	947	612
45°	801	797	785	772	769	617
55°	610	607	593	583	576	545
65°	412	410	399	389	385	409
75°	219	217	212	209	204	233
85°	57	58	58	57	55	63
90°	1	9	16	21	23	6
95°	32	96	871	395	231	34
105°	111	155	712	1403	1302	117
115°	198	239	572	1233	1450	195
125°	275	322	548	981	1143	244
135°	322	388	544	822	949	250
145°	375	430	546	681	749	235
155°	428	461	533	602	628	197
165°	468	481	511	542	550	132
175°	486	486	490	496	494	46
180°	487	487	487	487	487	

TEST NUMBER: P1028227

CATALOG NUMBER: S125DIP-B850D1090UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1316.2	1313.1	1302.7	1313.1	1312.1
5°	1310.0	1307.9	1297.5	1306.9	1305.8
7.5°	1300.7	1298.6	1287.2	1296.5	1295.5
10°	1287.2	1285.1	1273.7	1282.0	1280.9
12.5°	1270.6	1266.4	1256.0	1262.2	1262.2
15°	1248.8	1245.6	1234.2	1239.4	1239.4
17.5°	1225.9	1220.7	1209.3	1215.5	1210.3
20°	1195.8	1193.7	1180.2	1187.5	1182.3
22.5°	1165.7	1161.6	1149.1	1153.3	1150.1
25°	1133.5	1128.3	1114.8	1116.9	1113.8
27.5°	1096.2	1093.0	1079.6	1080.6	1077.5
30°	1059.8	1056.7	1041.1	1039.1	1036.0
32.5°	1020.4	1015.2	1001.7	997.5	991.3
35°	978.9	974.7	960.2	955.0	946.7
37.5°	936.3	931.1	917.6	910.4	905.2
40°	892.7	887.5	873.0	863.6	860.5
42.5°	846.0	841.8	827.3	819.0	813.8
45°	801.4	797.2	784.8	772.3	769.2
47.5°	752.6	753.6	738.0	725.6	718.3
50°	705.9	702.7	690.3	676.8	669.5
52.5°	658.1	656.0	642.5	631.1	622.8
55°	610.4	607.2	592.7	583.4	576.1
57.5°	559.5	558.5	546.0	533.5	530.4
60°	511.7	507.6	496.2	485.8	478.5
62.5°	461.9	458.8	449.5	438.0	432.9
65°	412.1	410.0	398.6	389.3	385.1
67.5°	363.3	359.2	350.9	342.6	340.5
70°	317.6	312.4	303.1	296.9	292.7
72.5°	267.8	264.7	259.5	252.2	248.1
75°	219.0	216.9	211.8	208.6	204.5
77.5°	173.4	172.3	169.2	167.1	164.0
80°	130.8	130.8	128.7	127.7	125.6
82.5°	93.4	91.3	91.3	89.3	89.3
85°	57.1	58.1	58.1	57.1	55.0
87.5°	28.0	28.0	27.0	27.0	24.9
90°	1.0	8.9	15.7	20.6	22.6
92.5°	14.7	80.6	392.1	104.6	72.7
95°	32.4	95.8	870.7	395.0	230.9
97.5°	50.1	103.7	940.5	713.4	506.1
100°	68.8	118.9	887.4	1008.3	766.5
102.5°	89.4	136.2	794.0	1257.8	1057.4
105°	111.0	155.2	712.5	1402.8	1302.1
107.5°	131.7	175.4	651.5	1443.6	1449.5
110°	154.3	196.6	611.3	1404.8	1516.3

TEST NUMBER: P1028227

CATALOG NUMBER: S125DIP-B850D1090UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.9	217.7	587.7	1323.7	1508.5
115°	198.5	239.3	571.9	1232.8	1450.5
117.5°	218.2	261.4	563.1	1150.3	1363.0
120°	237.8	282.5	557.2	1081.0	1278.5
122.5°	258.5	303.2	552.3	1025.5	1203.8
125°	275.2	322.4	548.4	980.8	1142.9
127.5°	288.9	341.0	546.4	942.4	1086.9
130°	301.7	358.7	544.4	903.6	1042.7
132.5°	311.5	374.4	544.4	861.8	998.4
135°	322.3	387.6	544.4	822.0	949.3
137.5°	336.1	400.0	545.4	780.2	898.2
140°	347.9	410.3	546.4	742.0	844.2
142.5°	361.6	420.1	547.4	709.0	794.0
145°	375.4	429.9	546.4	680.6	748.8
147.5°	390.1	438.8	544.4	656.0	708.5
150°	402.9	446.6	541.5	635.8	676.1
152.5°	416.7	454.5	537.5	618.6	650.6
155°	428.5	460.9	532.6	601.9	628.0
157.5°	439.3	467.3	527.7	586.2	607.3
160°	450.1	472.2	522.8	570.4	586.7
162.5°	458.9	477.1	516.9	556.2	568.0
165°	467.8	480.6	511.0	542.0	550.3
167.5°	473.7	482.5	505.1	528.7	533.6
170°	479.6	485.0	500.2	515.9	518.9
172.5°	483.5	486.0	494.3	505.6	505.1
175°	486.4	486.4	490.4	496.3	494.3
177.5°	488.4	486.4	487.4	490.4	487.4
180°	487.4	487.4	487.4	487.4	487.4

(END OF REPORT)