

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: P1028209

Luminaire Tested: S125DIP-B850D1090UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028209
REPORT IS A COMBINATION OF REPORTS P1002451 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-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

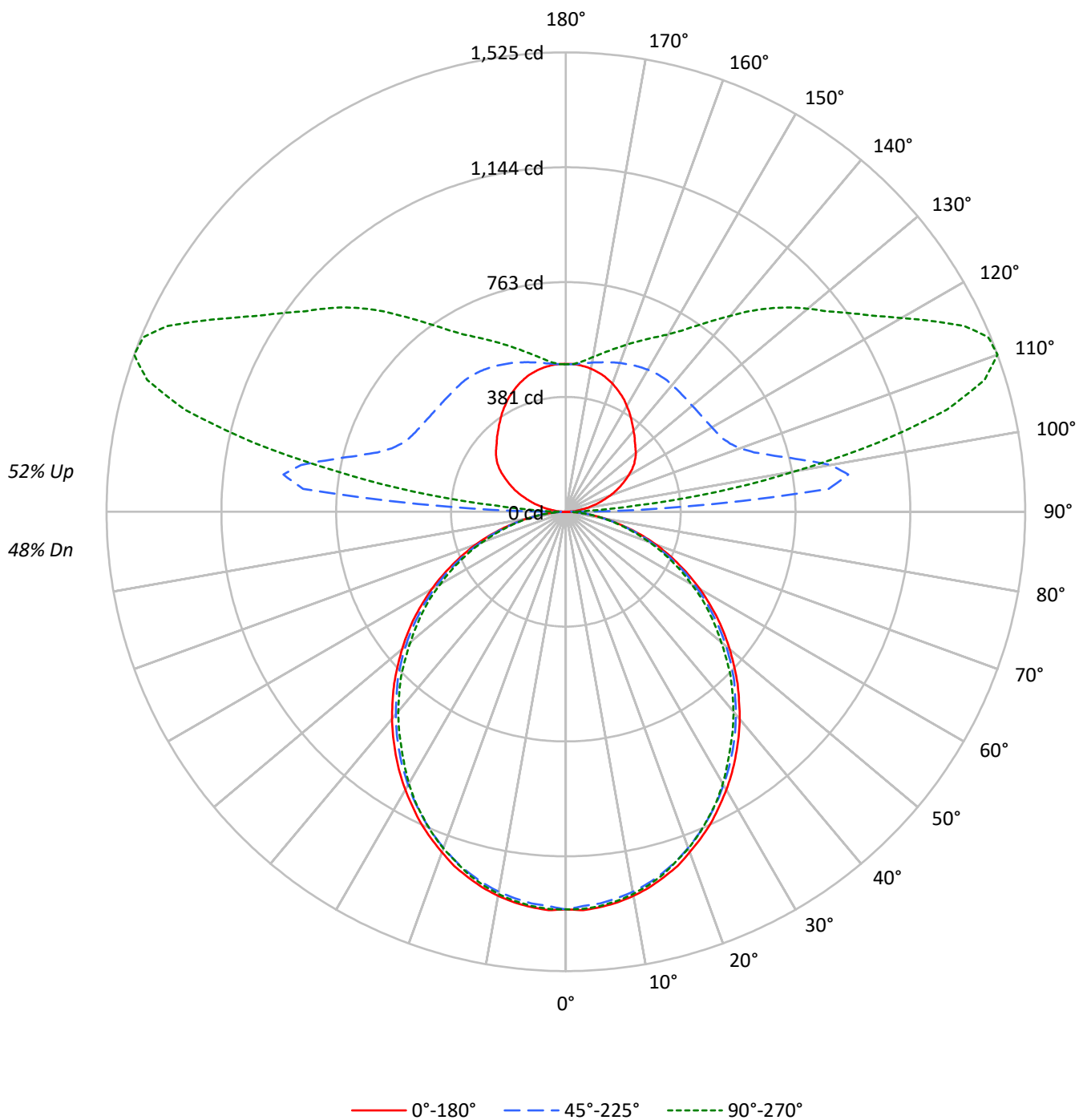
Lumens per Lamp: N/A
Luminaire Lumens: 7126.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028209

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028209

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-F4

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8456	8456	8456
5°	8456	8259	8275
10°	8386	8070	8045
15°	8276	7843	7774
20°	8127	7581	7462
25°	7968	7295	7128
30°	7774	6996	6777
35°	7569	6683	6384
40°	7356	6353	6034
45°	7126	6030	5662
50°	6872	5665	5229
55°	6621	5262	4831
60°	6322	4837	4367
65°	5964	4345	3888
70°	5601	3780	3334
75°	4988	3112	2696
80°	4253	2325	1983
85°	3282	1376	1092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7126 cd/sqm

TEST NUMBER: P1028209

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.7
10°-20°	351.8	4.9
20°-30°	519.3	7.3
30°-40°	605.9	8.5
40°-50°	608.5	8.5
50°-60°	534.2	7.5
60°-70°	397.9	5.6
70°-80°	227.2	3.2
80°-90°	67.6	0.9
90°-100°	369.2	5.2
100°-110°	766.8	10.8
110°-120°	716.2	10.0
120°-130°	579.6	8.1
130°-140°	465.6	6.5
140°-150°	351.5	4.9
150°-160°	247.5	3.5
160°-170°	145.9	2.0
170°-180°	47.4	0.7
0°-30°	995.6	14.0
0°-40°	1601.5	22.5
0°-60°	2744.3	38.5
0°-90°	3437.0	48.2
90°-120°	1852.2	26.0
90°-150°	3248.8	45.6
90°-180°	3690.0	51.8
0°-180°	7126.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1316	1305	1314	1314	125
15°	1256	1253	1241	1247	1247	354
25°	1140	1135	1121	1124	1120	525
35°	985	980	966	961	952	616
45°	806	802	789	777	774	621
55°	614	611	596	587	580	548
65°	414	412	401	392	387	411
75°	220	218	213	210	206	235
85°	57	58	58	57	55	63
90°	1	9	16	21	23	6
95°	33	96	876	397	232	34
105°	112	156	717	1411	1310	118
115°	200	241	575	1240	1459	197
125°	277	324	552	986	1150	246
135°	324	390	548	827	955	252
145°	378	432	550	684	753	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

TEST NUMBER: P1028209

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.8	1319.8	1319.8	1319.8	1319.8
2.5°	1323.9	1320.8	1310.4	1320.8	1319.8
5°	1317.7	1315.6	1305.1	1314.5	1313.5
7.5°	1308.3	1306.2	1294.7	1304.1	1303.1
10°	1294.7	1292.6	1281.1	1289.5	1288.4
12.5°	1278.0	1273.8	1263.4	1269.6	1269.6
15°	1256.1	1252.9	1241.4	1246.7	1246.7
17.5°	1233.1	1227.9	1216.4	1222.7	1217.4
20°	1202.8	1200.7	1187.2	1194.5	1189.2
22.5°	1172.5	1168.4	1155.8	1160.0	1156.9
25°	1140.2	1134.9	1121.4	1123.5	1120.3
27.5°	1102.6	1099.4	1085.9	1086.9	1083.8
30°	1066.0	1062.9	1047.2	1045.2	1042.0
32.5°	1026.4	1021.1	1007.6	1003.4	997.1
35°	984.6	980.4	965.8	960.6	952.2
37.5°	941.8	936.6	923.0	915.7	910.5
40°	897.9	892.7	878.1	868.7	865.6
42.5°	851.0	846.8	832.2	823.8	818.6
45°	806.1	801.9	789.3	776.8	773.7
47.5°	757.0	758.0	742.4	729.8	722.5
50°	710.0	706.9	694.3	680.8	673.5
52.5°	662.0	659.9	646.3	634.8	626.5
55°	613.9	610.8	596.2	586.8	579.5
57.5°	562.8	561.7	549.2	536.7	533.5
60°	514.7	510.6	499.1	488.6	481.3
62.5°	464.6	461.5	452.1	440.6	435.4
65°	414.5	412.4	400.9	391.5	387.4
67.5°	365.4	361.3	352.9	344.6	342.5
70°	319.5	314.3	304.9	298.6	294.4
72.5°	269.4	266.2	261.0	253.7	249.5
75°	220.3	218.2	213.0	209.9	205.7
77.5°	174.4	173.3	170.2	168.1	165.0
80°	131.6	131.6	129.5	128.4	126.3
82.5°	94.0	91.9	91.9	89.8	89.8
85°	57.4	58.5	58.5	57.4	55.3
87.5°	28.2	28.2	27.1	27.1	25.1
90°	1.0	8.9	15.8	20.8	22.7
92.5°	14.8	81.0	394.4	105.2	73.1
95°	32.6	96.4	875.7	397.3	232.3
97.5°	50.4	104.3	945.9	717.5	509.0
100°	69.2	119.6	892.5	1014.0	770.9
102.5°	89.9	136.9	798.6	1265.1	1063.5
105°	111.7	156.2	716.6	1410.8	1309.6
107.5°	132.4	176.4	655.3	1451.8	1457.8
110°	155.2	197.6	614.8	1412.8	1525.0

TEST NUMBER: P1028209

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	219.0	591.0	1331.3	1517.1
115°	199.6	240.6	575.2	1239.9	1458.8
117.5°	219.4	262.9	566.3	1156.9	1370.8
120°	239.2	284.2	560.4	1087.2	1285.8
122.5°	259.9	305.0	555.5	1031.4	1210.7
125°	276.7	324.2	551.5	986.4	1149.5
127.5°	290.6	343.0	549.5	947.8	1093.1
130°	303.4	360.8	547.5	908.8	1048.6
132.5°	313.3	376.5	547.5	866.8	1004.2
135°	324.2	389.9	547.5	826.8	954.7
137.5°	338.0	402.2	548.5	784.8	903.4
140°	349.9	412.6	549.5	746.2	849.0
142.5°	363.7	422.6	550.5	713.1	798.6
145°	377.6	432.4	549.5	684.4	753.1
147.5°	392.4	441.3	547.5	659.7	712.6
150°	405.2	449.2	544.6	639.5	680.0
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)