

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: P1027498

Luminaire Tested: S125DIP-B1090D850UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027498
REPORT IS A COMBINATION OF REPORTS P1001488 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

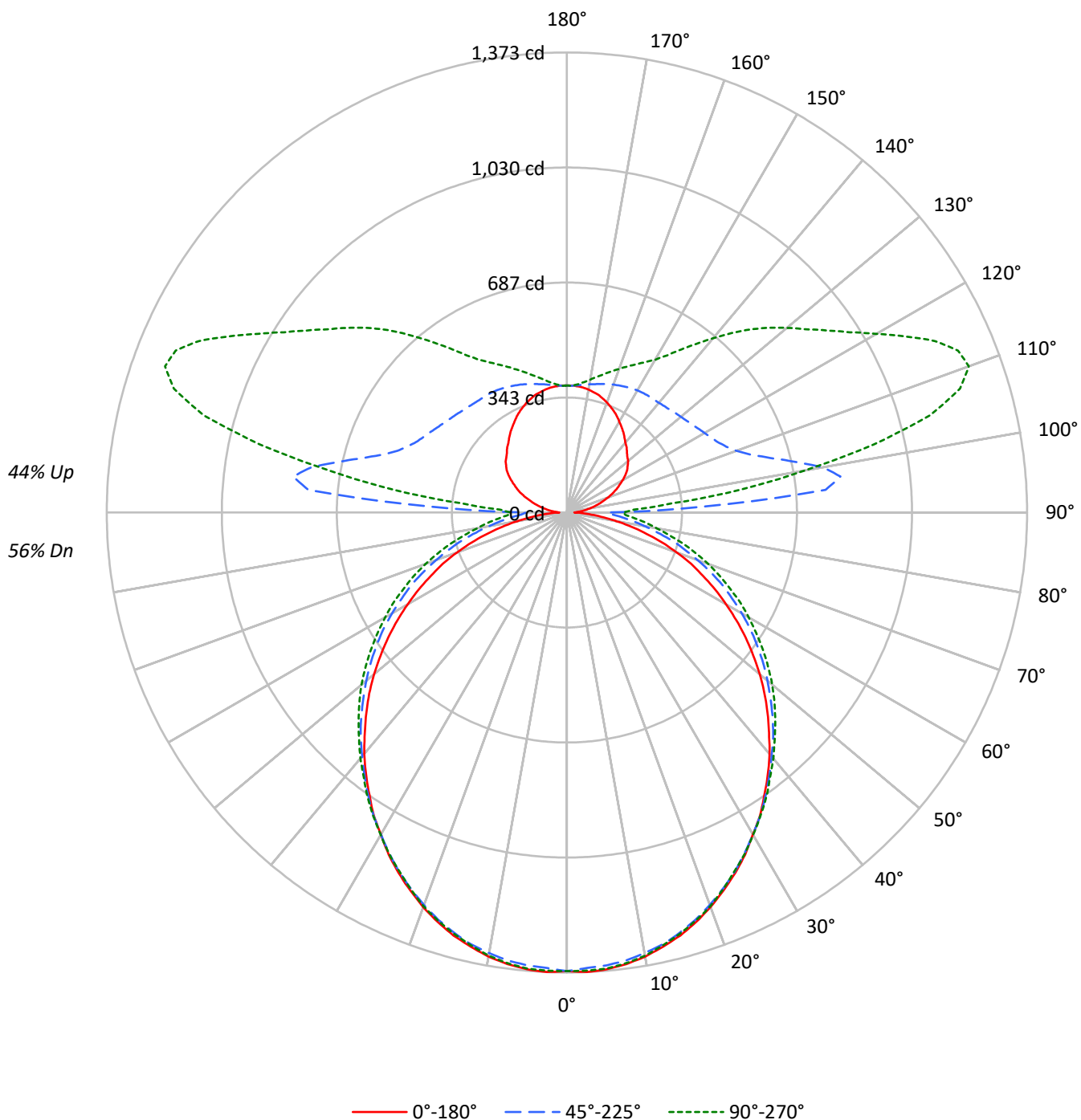
Lumens per Lamp: N/A
Luminaire Lumens: 7091.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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: P1027498

CATALOG NUMBER: S125DIP-B1090D850UB30-4F0-XX-W2A-D4

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	94	89	86	91	87	83	80	75	72	70	64	62	60	53	52	51
2	89	81	75	69	83	76	70	65	65	61	57	55	52	49	46	44	42
3	81	71	63	57	75	66	59	54	57	52	48	49	45	41	41	38	35
4	74	63	55	48	69	59	51	46	51	45	40	43	39	35	36	33	30
5	68	56	47	41	63	52	45	39	45	39	35	39	34	30	33	29	26
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23
7	58	45	37	31	54	42	35	30	37	31	27	32	27	23	27	23	20
8	54	41	33	28	50	39	31	26	34	28	24	29	24	21	25	21	18
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	26	21	28	23	19	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

TEST NUMBER: P1027498

CATALOG NUMBER: S125DIP-B1090D850UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.8
10°-20°	367.7	5.2
20°-30°	546.7	7.7
30°-40°	647.5	9.1
40°-50°	669.4	9.4
50°-60°	616.7	8.7
60°-70°	498.5	7.0
70°-80°	333.6	4.7
80°-90°	173.9	2.5
90°-100°	382.3	5.4
100°-110°	663.9	9.4
110°-120°	601.2	8.5
120°-130°	474.8	6.7
130°-140°	371.6	5.2
140°-150°	273.9	3.9
150°-160°	191.2	2.7
160°-170°	112.7	1.6
170°-180°	36.6	0.5
0°-30°	1043.9	14.7
0°-40°	1691.5	23.9
0°-60°	2977.5	42.0
0°-90°	3983.5	56.2
90°-120°	1647.5	23.2
90°-150°	2767.8	39.0
90°-180°	3108.0	43.8
0°-180°	7091.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	22	71	122	157	168	17
95°	43	127	774	434	316	40
105°	98	154	627	1190	1122	104
115°	162	203	497	1034	1212	160
125°	219	254	457	814	947	194
135°	253	302	434	667	772	196
145°	293	334	424	535	594	183
155°	333	358	414	468	488	153
165°	363	373	397	421	428	102
175°	378	378	381	386	384	36
180°	379	379	379	379	379	

TEST NUMBER: P1027498

CATALOG NUMBER: S125DIP-B1090D850UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.3	71.2	122.2	157.0	167.9
92.5°	30.3	120.4	409.3	215.6	200.1
95°	42.6	126.7	774.5	434.4	316.3
97.5°	55.0	128.9	823.3	675.1	523.4
100°	68.2	135.2	775.4	897.5	717.7
102.5°	82.9	144.6	697.4	1084.6	937.0
105°	98.4	154.1	627.4	1190.5	1121.7
107.5°	113.0	165.8	574.6	1216.9	1229.5
110°	129.3	178.2	538.0	1180.0	1276.1



TEST NUMBER: P1027498

CATALOG NUMBER: S125DIP-B1090D850UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.8	190.6	514.3	1110.4	1263.2
115°	162.3	203.4	496.7	1034.4	1211.5
117.5°	176.2	216.5	484.5	963.5	1138.2
120°	191.5	230.2	474.5	904.3	1065.9
122.5°	206.2	242.2	465.3	854.4	1001.1
125°	219.2	254.4	457.0	814.3	947.0
127.5°	228.5	267.6	450.0	777.8	898.2
130°	238.4	281.4	444.5	742.4	857.1
132.5°	244.7	293.6	439.1	704.5	816.0
135°	253.1	302.5	433.7	666.9	772.5
137.5°	263.8	312.0	430.5	629.0	726.1
140°	271.6	320.1	427.2	593.8	678.7
142.5°	282.3	326.4	425.3	563.0	634.3
145°	293.0	334.0	424.5	535.4	593.9
147.5°	303.1	340.9	423.0	512.4	555.9
150°	313.0	347.0	420.7	494.0	526.6
152.5°	323.7	353.2	417.7	480.6	505.5
155°	332.9	358.1	413.8	467.7	487.9
157.5°	341.3	363.1	410.0	455.4	471.9
160°	349.7	366.8	406.2	443.2	455.8
162.5°	356.6	370.7	401.6	432.2	441.3
165°	363.4	373.4	397.0	421.1	427.6
167.5°	368.0	374.9	392.5	410.8	414.6
170°	372.6	376.8	388.6	400.8	403.1
172.5°	375.7	377.5	384.1	392.8	392.5
175°	377.9	377.9	381.0	385.6	384.1
177.5°	379.5	377.9	378.7	381.0	378.7
180°	378.7	378.7	378.7	378.7	378.7

(END OF REPORT)