

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: P1028205

Luminaire Tested: S125DIP-B850D1090UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028205
REPORT IS A COMBINATION OF REPORTS P1002447 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-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

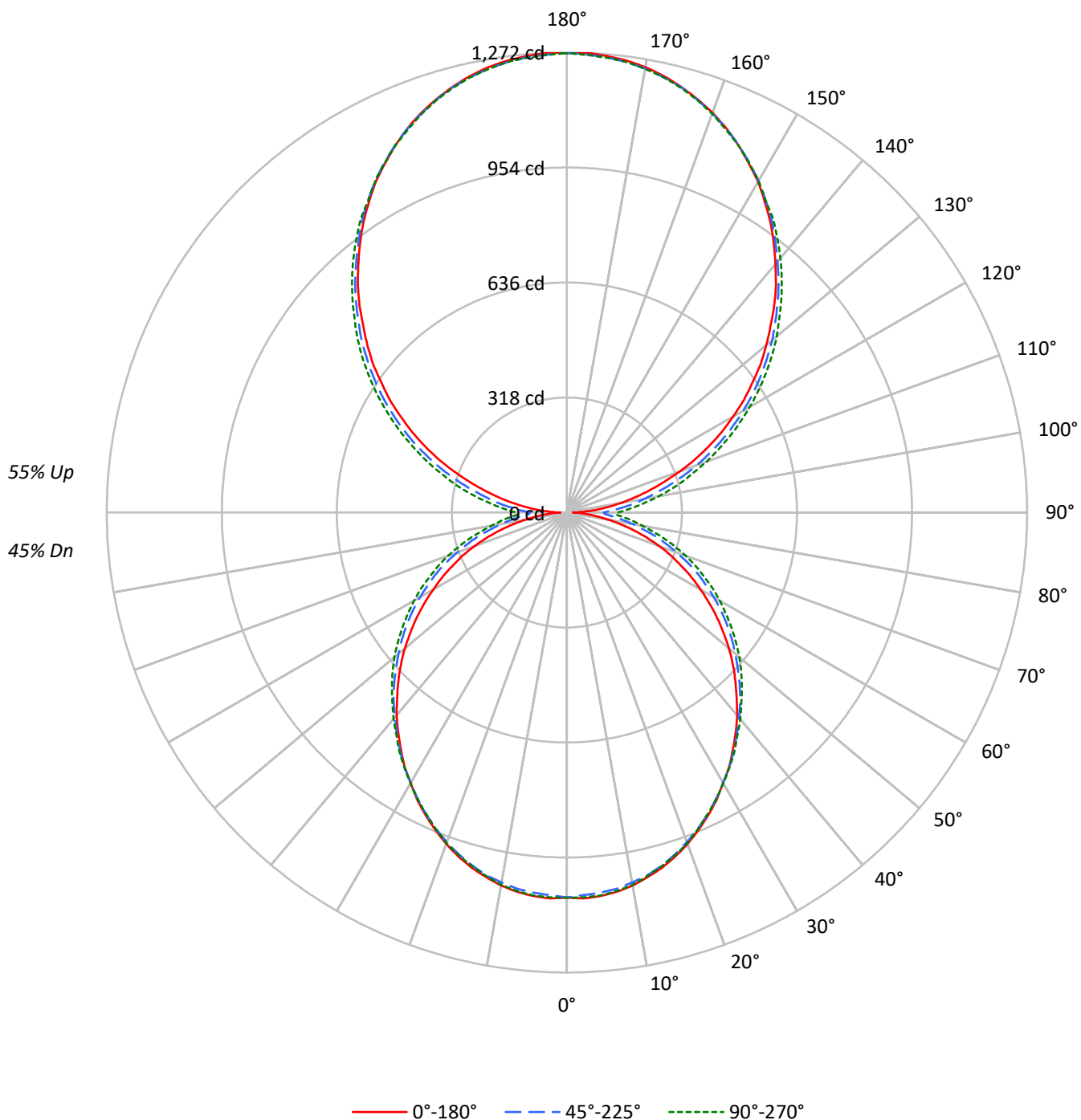
Lumens per Lamp: N/A
Luminaire Lumens: 6846.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1028205

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-D1

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	43	42
2	87	79	73	68	80	73	67	63	61	57	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	30
4	72	61	53	47	66	57	49	44	47	42	38	39	35	31	31	28	25
5	66	55	46	40	61	50	43	38	42	37	32	35	30	27	27	24	22
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	19
7	56	44	36	30	52	41	34	28	34	29	25	28	24	21	23	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	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

TEST NUMBER: P1028205

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.5
10°-20°	286.1	4.2
20°-30°	425.4	6.2
30°-40°	503.8	7.4
40°-50°	520.9	7.6
50°-60°	479.8	7.0
60°-70°	387.9	5.7
70°-80°	259.5	3.8
80°-90°	136.1	2.0
90°-100°	160.0	2.3
100°-110°	306.6	4.5
110°-120°	462.8	6.8
120°-130°	581.4	8.5
130°-140°	637.0	9.3
140°-150°	617.2	9.0
150°-160°	516.9	7.6
160°-170°	343.6	5.0
170°-180°	120.2	1.8
0°-30°	812.3	11.9
0°-40°	1316.1	19.2
0°-60°	2316.7	33.8
0°-90°	3100.2	45.3
90°-120°	929.5	13.6
90°-150°	2765.0	40.4
90°-180°	3746.0	54.7
0°-180°	6846.0	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	16
95°	78	107	152	182	192	78
105°	235	256	294	320	331	250
115°	432	444	473	490	496	428
125°	626	631	653	667	672	561
135°	811	816	824	837	839	625
145°	981	984	986	992	993	613
155°	1121	1121	1122	1126	1121	516
165°	1219	1217	1218	1222	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

TEST NUMBER: P1028205

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-D1

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°	44.3	79.5	124.9	154.8	164.1
95°	77.9	106.9	152.3	182.2	191.5
97.5°	111.3	137.4	185.7	213.6	221.9
100°	149.9	171.8	218.0	248.8	257.1
102.5°	191.3	216.1	253.4	284.2	293.4
105°	234.8	256.4	293.6	320.5	330.7
107.5°	282.2	301.8	336.9	360.8	367.1
110°	331.5	349.0	381.2	404.0	410.3

TEST NUMBER: P1028205

CATALOG NUMBER: S125DIP-B850D1090UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.9	394.3	426.5	446.2	451.6
115°	432.3	443.6	472.7	490.5	495.8
117.5°	482.6	488.8	516.9	535.7	539.0
120°	530.1	538.2	563.2	580.9	583.3
122.5°	580.5	582.5	608.4	624.2	627.5
125°	626.0	630.8	652.7	667.4	671.6
127.5°	675.3	677.2	695.9	710.6	715.0
130°	719.7	723.7	740.3	753.9	757.1
132.5°	763.2	772.1	781.5	795.2	796.4
135°	810.7	815.5	823.9	837.4	838.6
137.5°	855.2	860.0	866.2	879.7	878.9
140°	896.6	901.5	905.6	919.0	918.2
142.5°	939.1	942.0	946.0	956.4	955.6
145°	980.6	983.5	986.5	991.7	992.9
147.5°	1018.1	1021.1	1023.1	1028.1	1022.3
150°	1056.7	1055.7	1059.7	1059.7	1058.7
152.5°	1088.3	1090.3	1091.3	1094.2	1090.3
155°	1120.9	1120.9	1121.9	1125.9	1120.9
157.5°	1150.6	1148.6	1149.6	1153.6	1146.6
160°	1176.3	1173.3	1174.3	1178.3	1173.3
162.5°	1199.0	1197.1	1197.1	1202.0	1196.1
165°	1218.8	1216.8	1217.8	1221.8	1215.8
167.5°	1236.6	1232.6	1232.6	1238.6	1232.6
170°	1250.4	1246.5	1246.5	1252.4	1245.5
172.5°	1260.3	1256.4	1256.4	1262.3	1256.4
175°	1267.2	1263.3	1263.3	1269.2	1262.3
177.5°	1272.2	1268.2	1267.2	1273.2	1266.2
180°	1270.2	1270.2	1270.2	1270.2	1270.2

(END OF REPORT)