

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: P1027336

Luminaire Tested: S125DIP-B1090D1090UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027336
REPORT IS A COMBINATION OF REPORTS P1001266 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

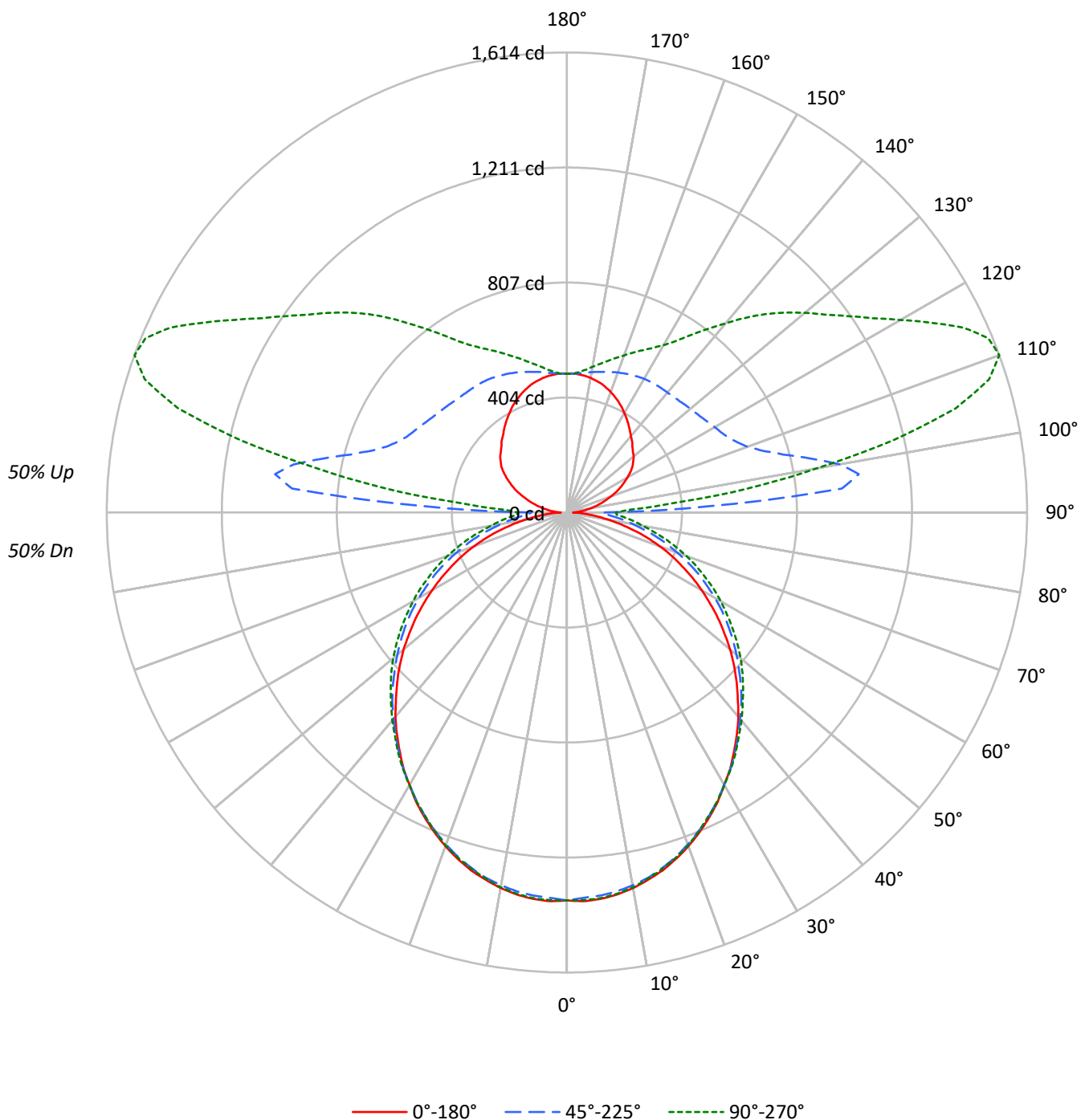
Lumens per Lamp: N/A
Luminaire Lumens: 7886.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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: P1027336

CATALOG NUMBER: S125DIP-B1090D1090UB40-4F0-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	57	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	36	32	29	30	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

TEST NUMBER: P1027336

CATALOG NUMBER: S125DIP-B1090D1090UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.6
10°-20°	365.6	4.6
20°-30°	543.6	6.9
30°-40°	643.8	8.2
40°-50°	665.6	8.4
50°-60°	613.2	7.8
60°-70°	495.7	6.3
70°-80°	331.7	4.2
80°-90°	173.4	2.2
90°-100°	463.6	5.9
100°-110°	833.6	10.6
110°-120°	759.8	9.6
120°-130°	603.2	7.6
130°-140°	474.8	6.0
140°-150°	351.8	4.5
150°-160°	246.1	3.1
160°-170°	145.0	1.8
170°-180°	47.2	0.6
0°-30°	1038.0	13.2
0°-40°	1681.9	21.3
0°-60°	2960.7	37.5
0°-90°	3961.4	50.2
90°-120°	2057.0	26.1
90°-150°	3486.8	44.2
90°-180°	3925.0	49.8
0°-180°	7886.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	73	125	161	172	17
95°	50	148	968	522	367	47
105°	123	189	786	1503	1412	130
115°	206	257	624	1309	1535	203
125°	280	326	579	1033	1202	249
135°	325	389	555	850	984	252
145°	377	430	546	687	761	236
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: P1027336

CATALOG NUMBER: S125DIP-B1090D1090UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	22.3	72.8	125.1	160.8	172.0
92.5°	33.4	138.0	496.2	238.0	215.5
95°	49.7	147.8	968.1	521.8	367.0
97.5°	66.1	151.7	1032.6	833.6	635.5
100°	83.5	161.6	972.8	1121.7	887.9
102.5°	102.7	174.9	874.1	1364.6	1172.1
105°	123.0	188.6	785.9	1502.9	1411.5
107.5°	142.4	204.8	719.5	1538.3	1552.2
110°	163.6	222.0	674.0	1492.9	1613.7

TEST NUMBER: P1027336

CATALOG NUMBER: S125DIP-B1090D1090UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.2	239.0	645.1	1405.1	1599.2
115°	206.5	256.6	623.9	1308.9	1534.6
117.5°	224.9	274.7	609.8	1219.7	1441.7
120°	244.5	293.2	598.6	1145.0	1350.6
122.5°	263.8	309.9	588.3	1082.9	1269.2
125°	280.5	326.4	579.1	1032.8	1201.6
127.5°	292.9	343.7	571.8	987.8	1140.3
130°	305.7	361.4	565.7	943.6	1089.4
132.5°	314.2	377.1	560.4	896.6	1038.4
135°	325.0	389.0	555.1	850.0	984.0
137.5°	338.8	401.2	552.1	803.0	926.2
140°	349.2	411.6	549.1	759.2	866.9
142.5°	362.9	420.1	547.4	721.0	811.3
145°	376.7	429.9	546.4	687.2	760.8
147.5°	390.1	438.8	544.4	658.7	713.8
150°	402.9	446.6	541.5	635.8	677.4
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)