

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: P1027479

Luminaire Tested: S125DIP-B1090D610UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027479
REPORT IS A COMBINATION OF REPORTS P1001454 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

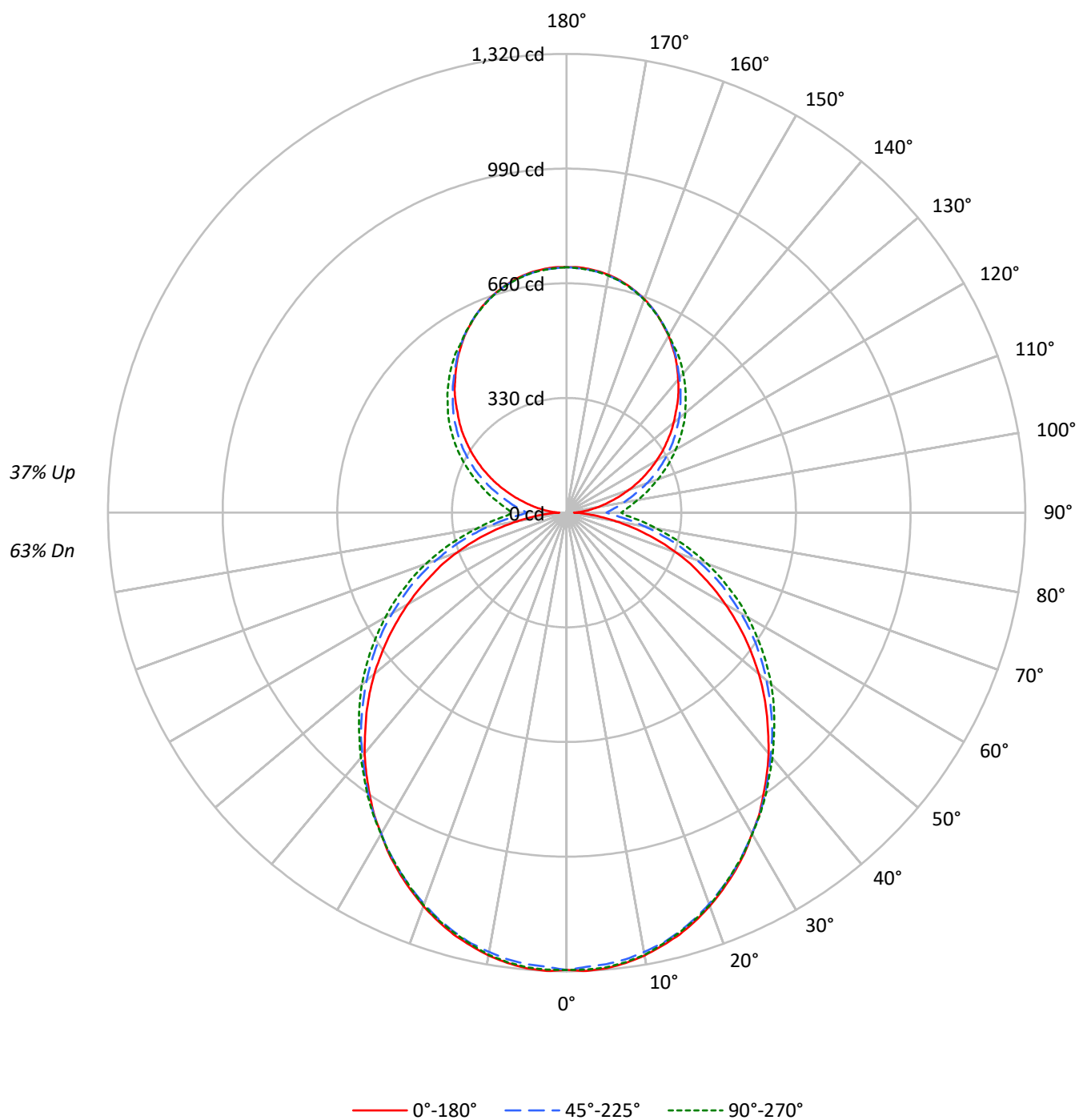
Lumens per Lamp: N/A
Luminaire Lumens: 6049.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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

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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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	73	68	66	64	59	57	56
2	91	82	76	70	85	77	72	67	68	63	59	59	56	53	51	49	46
3	82	72	64	58	77	68	61	55	60	54	50	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	42	38	40	37	33
5	69	57	48	42	64	54	46	40	47	41	36	42	37	33	36	32	29
6	64	51	42	36	59	48	40	35	43	36	32	38	32	28	33	29	25
7	59	46	38	32	55	43	36	30	39	32	28	34	29	25	30	26	23
8	55	42	34	28	51	40	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	28	23	45	33	26	22	30	24	20	27	22	18	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.1
10°-20°	353.5	5.8
20°-30°	525.7	8.7
30°-40°	622.6	10.3
40°-50°	643.7	10.6
50°-60°	593.0	9.8
60°-70°	479.3	7.9
70°-80°	320.7	5.3
80°-90°	166.9	2.8
90°-100°	140.3	2.3
100°-110°	208.3	3.4
110°-120°	282.7	4.7
120°-130°	337.6	5.6
130°-140°	360.4	6.0
140°-150°	344.4	5.7
150°-160°	287.4	4.8
160°-170°	191.0	3.2
170°-180°	66.8	1.1
0°-30°	1003.8	16.6
0°-40°	1626.4	26.9
0°-60°	2863.1	47.3
0°-90°	3830.0	63.3
90°-120°	631.4	10.4
90°-150°	1673.7	27.7
90°-180°	2219.0	36.7
0°-180°	6049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	21	67	115	147	158	17
95°	52	87	136	169	179	51
105°	137	160	202	231	242	146
115°	245	256	290	313	320	242
125°	351	353	379	399	405	314
135°	452	454	464	480	485	349
145°	546	547	548	555	558	341
155°	623	623	624	626	623	287
165°	678	676	677	679	676	191
175°	704	702	702	706	702	67
180°	706	706	706	706	706	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.1	66.8	114.6	147.0	157.7
92.5°	34.6	74.7	124.8	157.0	167.2
95°	52.5	87.1	136.5	168.8	178.9
97.5°	70.5	102.0	152.2	182.6	192.2
100°	91.1	118.2	166.7	198.7	207.5
102.5°	113.5	140.7	183.5	214.8	224.2
105°	136.9	160.3	202.3	231.4	242.1
107.5°	162.5	183.4	223.5	251.0	258.8
110°	189.3	207.5	245.3	271.5	280.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.8	230.5	267.6	291.4	299.3
115°	244.6	255.9	290.5	313.1	320.4
117.5°	271.9	278.9	312.3	334.7	341.5
120°	298.3	304.9	335.1	357.0	362.6
122.5°	325.6	327.4	357.4	377.5	383.6
125°	350.9	352.9	379.2	398.7	404.7
127.5°	377.6	377.9	400.4	419.2	425.8
130°	402.3	403.8	422.9	440.4	445.8
132.5°	425.8	430.7	443.1	460.5	464.1
135°	452.1	454.1	463.7	480.5	484.7
137.5°	476.9	478.9	485.2	501.1	503.6
140°	499.2	501.9	504.9	520.2	522.5
142.5°	522.8	523.7	525.9	538.1	540.5
145°	545.9	546.8	548.5	555.0	558.4
147.5°	566.0	567.7	568.8	573.0	571.2
150°	587.5	586.9	589.1	589.1	589.3
152.5°	605.1	606.2	606.7	608.4	606.2
155°	623.2	623.2	623.7	625.9	623.2
157.5°	639.7	638.6	639.1	641.3	637.5
160°	654.0	652.3	652.9	655.1	652.3
162.5°	666.6	665.5	665.5	668.3	665.0
165°	677.6	676.5	677.1	679.3	676.0
167.5°	687.5	685.3	685.3	688.6	685.3
170°	695.2	693.0	693.0	696.3	692.4
172.5°	700.7	698.5	698.5	701.8	698.5
175°	704.5	702.3	702.3	705.6	701.8
177.5°	707.3	705.1	704.5	707.8	704.0
180°	706.2	706.2	706.2	706.2	706.2

(END OF REPORT)