

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: P1027478

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027478
REPORT IS A COMBINATION OF REPORTS P1001453 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-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

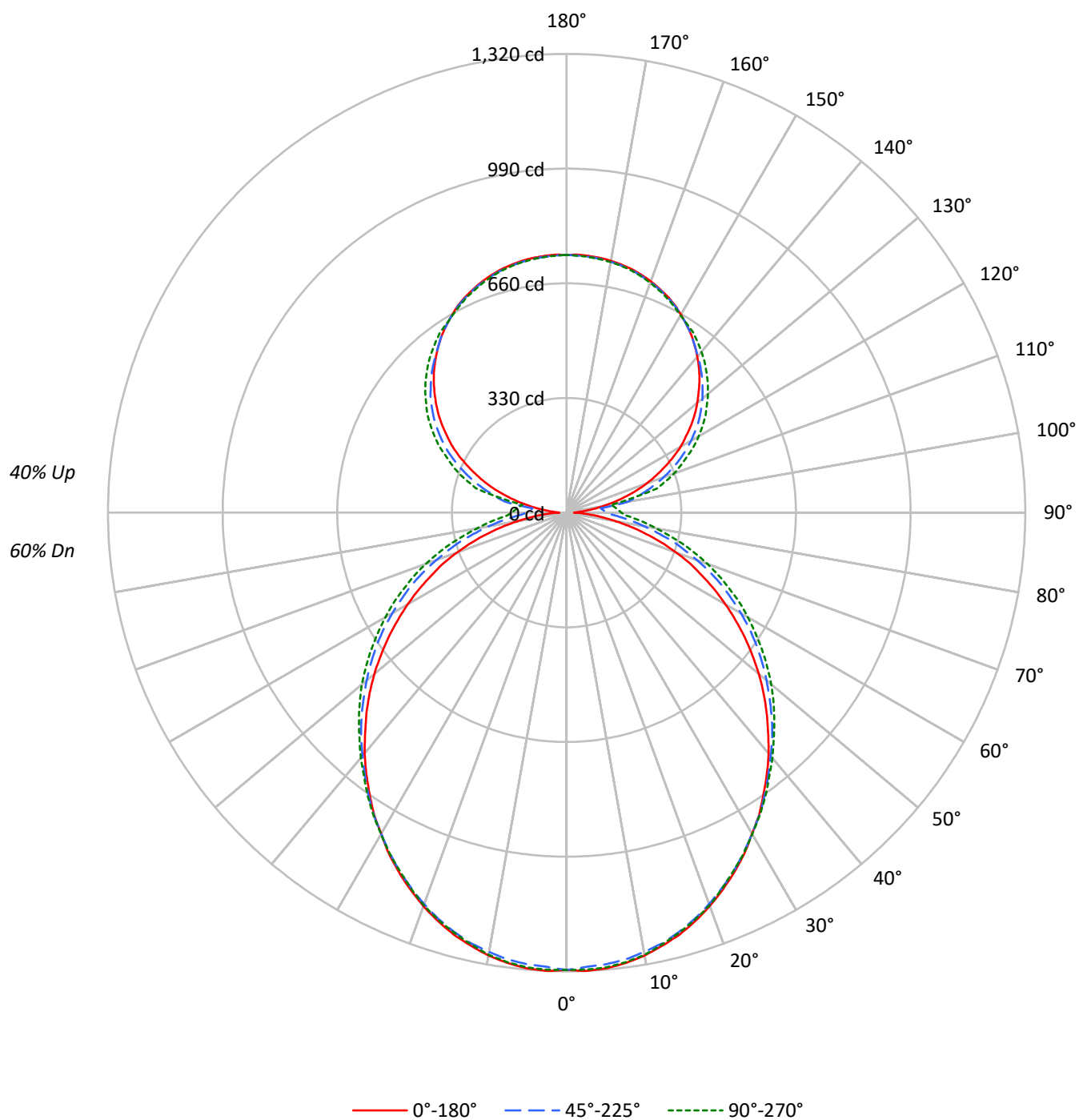
Lumens per Lamp: N/A
Luminaire Lumens: 6356.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	44
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	35	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
10	47	35	27	22	44	33	26	21	29	23	20	26	21	18	23	19	16

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	2.0
10°-20°	353.5	5.6
20°-30°	525.7	8.3
30°-40°	622.6	9.8
40°-50°	643.7	10.1
50°-60°	593.0	9.3
60°-70°	479.3	7.5
70°-80°	320.7	5.0
80°-90°	166.9	2.6
90°-100°	118.5	1.9
100°-110°	236.2	3.7
110°-120°	347.5	5.5
120°-130°	413.0	6.5
130°-140°	427.5	6.7
140°-150°	392.8	6.2
150°-160°	315.9	5.0
160°-170°	204.3	3.2
170°-180°	70.4	1.1
0°-30°	1003.8	15.8
0°-40°	1626.4	25.6
0°-60°	2863.1	45.0
0°-90°	3830.0	60.3
90°-120°	702.2	11.0
90°-150°	1935.4	30.4
90°-180°	2526.0	39.7
0°-180°	6356.0	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	16
95°	48	80	103	134	143	52
105°	173	196	235	261	269	183
115°	311	323	357	378	382	309
125°	437	439	465	484	488	390
135°	541	543	551	566	570	417
145°	625	625	625	632	634	391
155°	687	684	685	687	682	317
165°	725	722	722	726	721	205
175°	742	738	739	743	738	71
180°	742	742	742	742	742	

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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°	28.5	61.0	109.4	140.5	150.2
95°	48.1	80.0	103.0	134.1	143.1
97.5°	74.3	108.6	98.9	127.1	136.7
100°	106.0	134.8	178.2	123.4	128.9
102.5°	138.2	164.9	206.0	232.9	194.6
105°	173.2	196.1	234.8	260.6	269.1
107.5°	209.3	227.4	265.9	292.2	297.8
110°	244.3	259.8	297.0	319.9	329.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.4	291.6	327.1	348.1	356.0
115°	311.1	323.0	357.0	378.0	382.5
117.5°	345.7	352.1	386.6	405.2	413.1
120°	378.7	381.9	413.3	434.1	439.1
122.5°	406.5	410.5	439.4	459.0	463.4
125°	436.7	439.3	465.1	483.5	488.3
127.5°	464.6	466.0	487.4	505.7	509.0
130°	490.9	492.4	510.9	527.4	531.1
132.5°	516.0	519.3	530.6	548.6	551.0
135°	540.8	542.8	550.7	566.4	569.5
137.5°	563.9	565.8	569.9	585.3	587.8
140°	585.1	586.2	586.9	602.2	604.0
142.5°	605.4	604.7	605.8	617.4	619.3
145°	625.2	625.0	625.0	632.1	633.9
147.5°	641.5	641.5	642.1	645.2	644.0
150°	658.0	656.9	658.0	659.1	656.0
152.5°	673.9	671.2	672.3	673.4	669.5
155°	687.1	683.8	684.9	686.6	682.2
157.5°	697.6	695.9	695.9	697.6	693.2
160°	708.6	705.3	705.8	708.0	703.6
162.5°	717.4	714.1	714.6	717.9	713.0
165°	725.1	721.8	722.3	725.6	721.2
167.5°	731.1	727.8	728.4	732.2	727.3
170°	736.1	732.2	732.8	737.2	732.2
172.5°	739.4	735.5	736.6	740.5	735.5
175°	741.6	738.3	738.8	743.2	738.3
177.5°	743.2	739.9	740.5	744.3	739.9
180°	741.6	741.6	741.6	741.6	741.6

(END OF REPORT)