

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: P1027480

Luminaire Tested: S125DIP-B1090D610UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027480
REPORT IS A COMBINATION OF REPORTS P1001455 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

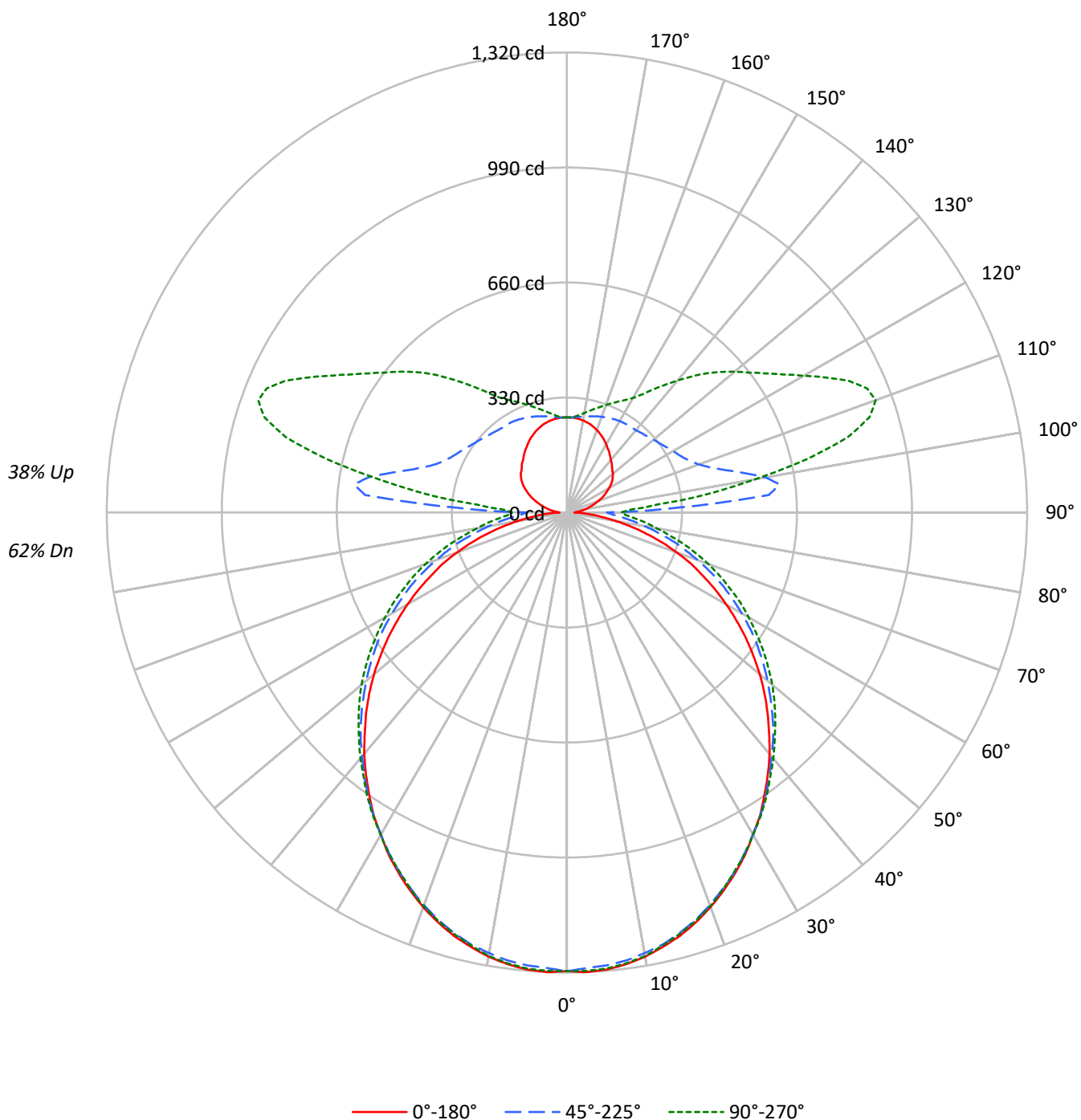
Lumens per Lamp: N/A
Luminaire Lumens: 6130.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	85	82	78	75	72	68	66	64	58	57	55
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	58	77	68	61	55	59	54	49	52	48	44	45	41	39
4	75	64	55	49	70	60	52	46	53	47	42	46	41	37	40	36	33
5	69	57	48	42	64	53	46	40	47	41	36	41	36	32	36	32	29
6	64	51	42	36	59	48	40	35	42	36	31	37	32	28	32	28	25
7	59	46	38	32	55	43	36	30	38	32	28	34	29	25	30	25	22
8	55	42	34	28	51	39	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	27	23	44	33	26	22	30	24	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	5.8
20°-30°	525.7	8.6
30°-40°	622.6	10.2
40°-50°	643.7	10.5
50°-60°	593.0	9.7
60°-70°	479.3	7.8
70°-80°	320.7	5.2
80°-90°	166.9	2.7
90°-100°	298.7	4.9
100°-110°	495.3	8.1
110°-120°	444.4	7.2
120°-130°	348.4	5.7
130°-140°	270.4	4.4
140°-150°	197.8	3.2
150°-160°	137.6	2.2
160°-170°	81.1	1.3
170°-180°	26.4	0.4
0°-30°	1003.8	16.4
0°-40°	1626.4	26.5
0°-60°	2863.1	46.7
0°-90°	3830.0	62.5
90°-120°	1238.5	20.2
90°-150°	2055.1	33.5
90°-180°	2300.0	37.5
0°-180°	6130.2	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	157	16
95°	35	104	581	344	261	32
105°	74	119	470	882	834	78
115°	119	151	370	763	893	117
125°	159	184	336	599	696	141
135°	183	218	315	487	564	142
145°	211	240	306	387	430	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

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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	157.1
92.5°	26.3	100.6	319.9	187.6	178.8
95°	34.9	103.9	581.2	343.6	260.8
97.5°	43.5	104.5	615.1	515.2	408.3
100°	52.7	107.8	579.0	673.7	546.2
102.5°	62.9	113.6	521.6	806.9	702.5
105°	73.7	119.2	469.5	881.5	834.2
107.5°	84.0	126.6	430.3	899.1	910.2
110°	95.3	134.4	402.5	871.0	942.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.9	142.4	384.2	819.2	931.5
115°	118.7	150.6	370.2	763.2	892.7
117.5°	128.5	159.1	360.2	710.5	838.5
120°	139.5	168.4	351.7	666.6	784.9
122.5°	149.8	176.1	343.7	629.2	736.6
125°	159.1	184.2	336.4	598.9	696.1
127.5°	165.5	193.4	330.1	571.1	659.6
130°	172.7	203.2	325.1	544.2	628.4
132.5°	176.9	212.0	320.0	515.6	597.2
135°	182.9	218.2	314.8	487.0	564.5
137.5°	190.6	225.0	311.6	458.4	529.5
140°	195.9	230.8	308.2	431.8	494.1
142.5°	203.6	235.0	306.2	408.2	461.0
145°	211.3	240.5	305.6	387.2	430.5
147.5°	218.2	245.4	304.5	369.6	401.5
150°	225.4	249.8	302.9	355.6	379.5
152.5°	233.1	254.2	300.7	346.0	363.9
155°	239.7	257.8	297.9	336.7	351.3
157.5°	245.7	261.4	295.2	327.9	339.7
160°	251.8	264.2	292.4	319.1	328.2
162.5°	256.7	266.9	289.1	311.2	317.7
165°	261.7	268.8	285.8	303.2	307.8
167.5°	265.0	269.9	282.6	295.7	298.5
170°	268.3	271.3	279.8	288.6	290.2
172.5°	270.5	271.8	276.5	282.8	282.6
175°	272.1	272.1	274.3	277.6	276.5
177.5°	273.2	272.1	272.7	274.3	272.7
180°	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)