

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: P1027996

Luminaire Tested: S125DIP-B610D1090UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027996
REPORT IS A COMBINATION OF REPORTS P1002160 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

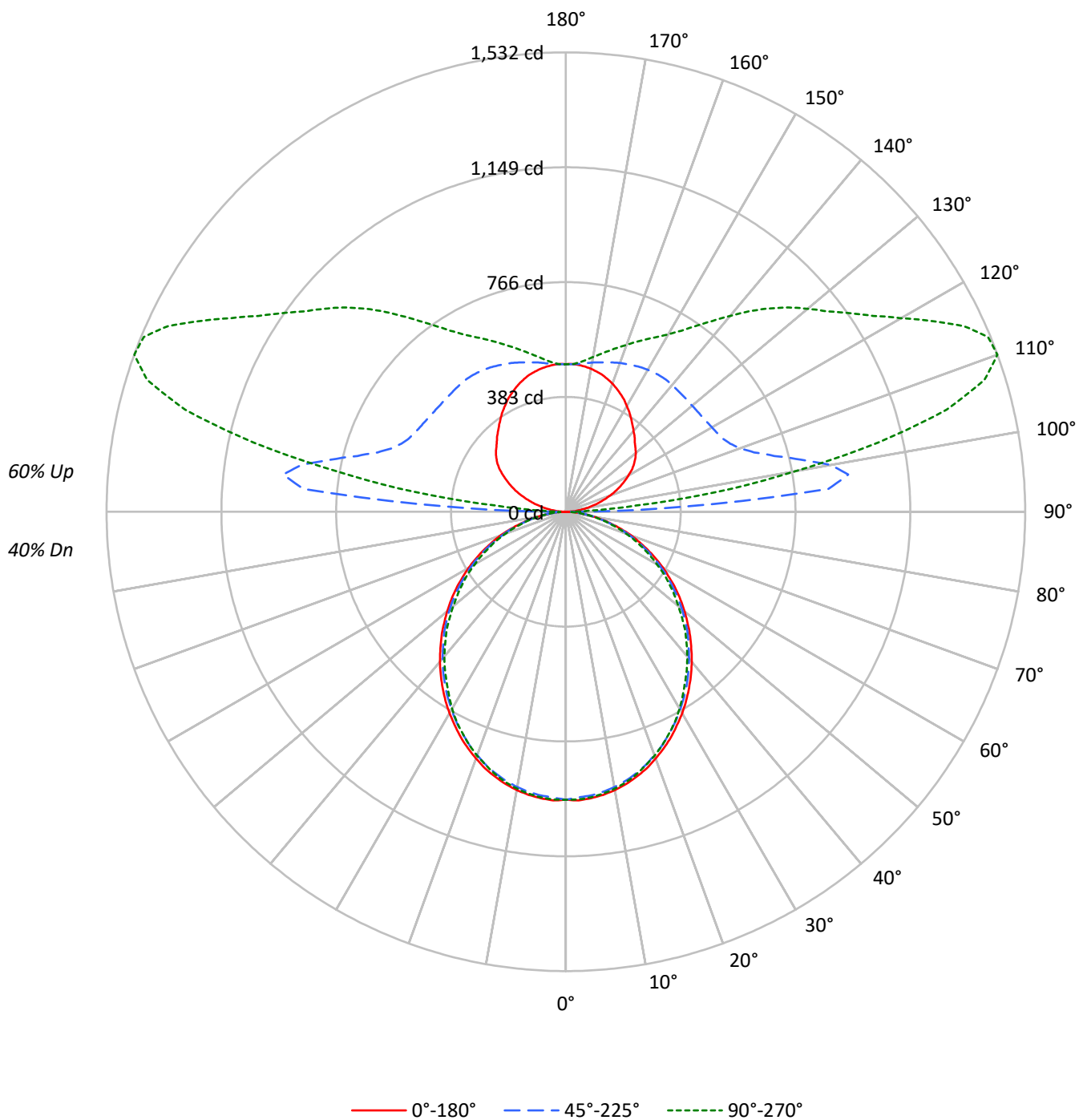
Lumens per Lamp: N/A
Luminaire Lumens: 6207.6 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 52.5
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40
2	87	80	74	68	79	73	68	63	60	56	53	48	45	43	37	35	33
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28
4	72	62	54	48	66	57	50	45	47	42	38	38	34	31	29	26	24
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	26	23	21
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6154	6154	6154
5°	6154	6012	6023
10°	6104	5873	5855
15°	6024	5708	5657
20°	5915	5517	5431
25°	5799	5309	5188
30°	5659	5092	4933
35°	5509	4864	4646
40°	5353	4624	4392
45°	5186	4389	4121
50°	5001	4123	3805
55°	4819	3829	3515
60°	4601	3520	3178
65°	4341	3162	2829
70°	4076	2751	2427
75°	3630	2265	1962
80°	3093	1691	1443
85°	2390	1002	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.5
10°-20°	256.0	4.1
20°-30°	378.0	6.1
30°-40°	441.0	7.1
40°-50°	442.9	7.1
50°-60°	388.8	6.3
60°-70°	289.6	4.7
70°-80°	165.4	2.7
80°-90°	49.7	0.8
90°-100°	370.8	6.0
100°-110°	770.1	12.4
110°-120°	719.3	11.6
120°-130°	582.1	9.4
130°-140°	467.7	7.5
140°-150°	353.0	5.7
150°-160°	248.5	4.0
160°-170°	146.5	2.4
170°-180°	47.6	0.8
0°-30°	724.6	11.7
0°-40°	1165.6	18.8
0°-60°	1997.3	32.2
0°-90°	2502.0	40.3
90°-120°	1860.2	30.0
90°-150°	3263.0	52.6
90°-180°	3706.0	59.7
0°-180°	6207.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	950	957	956	91
15°	914	912	904	907	907	258
25°	830	826	816	818	815	382
35°	717	714	703	699	693	448
45°	587	584	574	565	563	452
55°	447	444	434	427	422	399
65°	302	300	292	285	282	299
75°	160	159	155	153	150	171
85°	42	43	43	42	40	46
90°	1	9	16	21	23	5
95°	33	97	880	399	233	34
105°	112	157	720	1417	1315	118
115°	200	242	578	1245	1465	197
125°	278	326	554	991	1154	247
135°	326	392	550	830	959	253
145°	379	434	552	687	756	238
155°	433	466	538	608	634	199
165°	472	485	516	547	556	133
175°	491	491	495	501	499	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.5	960.5	960.5	960.5	960.5
2.5°	963.6	961.3	953.7	961.3	960.5
5°	959.0	957.5	949.9	956.7	956.0
7.5°	952.2	950.6	942.3	949.1	948.4
10°	942.3	940.8	932.4	938.5	937.7
12.5°	930.1	927.1	919.5	924.0	924.0
15°	914.2	911.9	903.5	907.3	907.3
17.5°	897.4	893.6	885.3	889.8	886.1
20°	875.4	873.9	864.0	869.3	865.5
22.5°	853.4	850.3	841.2	844.3	842.0
25°	829.8	826.0	816.1	817.7	815.4
27.5°	802.5	800.2	790.3	791.1	788.8
30°	775.9	773.6	762.2	760.7	758.4
32.5°	747.0	743.2	733.3	730.3	725.7
35°	716.6	713.6	702.9	699.1	693.0
37.5°	685.4	681.6	671.8	666.4	662.6
40°	653.5	649.7	639.1	632.2	630.0
42.5°	619.3	616.3	605.6	599.6	595.8
45°	586.6	583.6	574.5	565.4	563.1
47.5°	550.9	551.7	540.3	531.2	525.9
50°	516.7	514.5	505.3	495.5	490.1
52.5°	481.8	480.3	470.4	462.0	455.9
55°	446.8	444.5	433.9	427.1	421.7
57.5°	409.6	408.8	399.7	390.6	388.3
60°	374.6	371.6	363.2	355.6	350.3
62.5°	338.2	335.9	329.0	320.7	316.9
65°	301.7	300.2	291.8	285.0	281.9
67.5°	266.0	262.9	256.8	250.8	249.2
70°	232.5	228.7	221.9	217.3	214.3
72.5°	196.1	193.8	190.0	184.7	181.6
75°	160.3	158.8	155.0	152.7	149.7
77.5°	126.9	126.1	123.9	122.3	120.1
80°	95.7	95.7	94.2	93.5	91.9
82.5°	68.4	66.9	66.9	65.4	65.4
85°	41.8	42.6	42.6	41.8	40.3
87.5°	20.5	20.5	19.8	19.8	18.2
90°	1.0	8.9	15.9	20.8	22.8
92.5°	14.9	81.4	396.1	105.7	73.5
95°	32.8	96.8	879.5	399.0	233.3
97.5°	50.6	104.7	950.0	720.7	511.2
100°	69.5	120.1	896.4	1018.4	774.3
102.5°	90.3	137.5	802.1	1270.6	1068.1
105°	112.2	156.8	719.7	1417.0	1315.3
107.5°	133.0	177.2	658.1	1458.2	1464.2
110°	155.8	198.5	617.4	1419.0	1531.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.7	219.9	593.6	1337.1	1523.7
115°	200.5	241.7	577.7	1245.3	1465.1
117.5°	220.4	264.0	568.8	1161.9	1376.8
120°	240.2	285.4	562.8	1091.9	1291.4
122.5°	261.1	306.2	557.9	1035.8	1216.0
125°	277.9	325.6	553.9	990.6	1154.4
127.5°	291.8	344.4	551.9	952.0	1097.9
130°	304.7	362.3	549.9	912.8	1053.2
132.5°	314.7	378.2	549.9	870.6	1008.5
135°	325.6	391.6	549.9	830.4	958.9
137.5°	339.5	404.0	550.9	788.2	907.3
140°	351.4	414.4	551.9	749.4	852.7
142.5°	365.3	424.4	552.9	716.2	802.1
145°	379.2	434.3	551.9	687.4	756.4
147.5°	394.1	443.2	549.9	662.6	715.7
150°	407.0	451.2	546.9	642.2	682.9
152.5°	420.9	459.1	543.0	624.8	657.1
155°	432.8	465.6	538.0	608.0	634.3
157.5°	443.7	472.0	533.0	592.1	613.5
160°	454.6	477.0	528.1	576.2	592.6
162.5°	463.6	482.0	522.1	561.8	573.7
165°	472.5	485.4	516.2	547.4	555.9
167.5°	478.5	487.4	510.2	534.0	539.0
170°	484.4	489.9	505.3	521.1	524.1
172.5°	488.4	490.9	499.3	510.7	510.2
175°	491.4	491.4	495.3	501.3	499.3
177.5°	493.3	491.4	492.4	495.3	492.4
180°	492.4	492.4	492.4	492.4	492.4

(END OF REPORT)