

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: P1027995

Luminaire Tested: S125DIP-B610D1090UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027995
REPORT IS A COMBINATION OF REPORTS P1002159 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-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

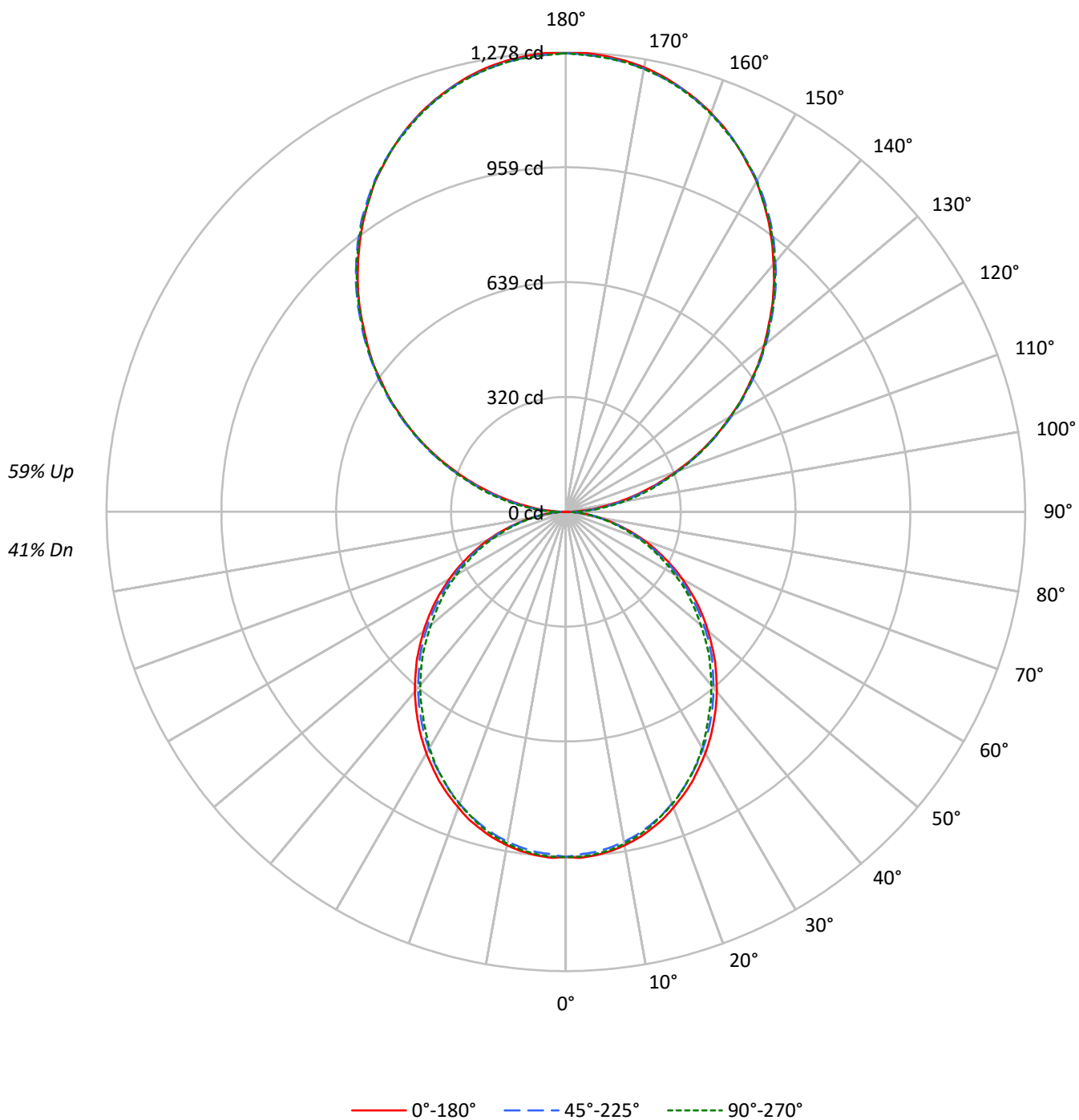
Lumens per Lamp: N/A
Luminaire Lumens: 6062.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	91	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	27	48	37	30	26	31	26	22	25	22	19	20	17	15
9	49	37	29	24	45	34	27	23	29	23	20	23	20	17	19	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	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	4.2
20°-30°	378.0	6.2
30°-40°	441.0	7.3
40°-50°	442.9	7.3
50°-60°	388.8	6.4
60°-70°	289.6	4.8
70°-80°	165.4	2.7
80°-90°	49.7	0.8
90°-100°	84.8	1.4
100°-110°	252.0	4.2
110°-120°	427.4	7.0
120°-130°	562.6	9.3
130°-140°	630.4	10.4
140°-150°	617.9	10.2
150°-160°	519.1	8.6
160°-170°	345.0	5.7
170°-180°	120.7	2.0
0°-30°	724.6	12.0
0°-40°	1165.6	19.2
0°-60°	1997.3	32.9
0°-90°	2502.0	41.3
90°-120°	764.2	12.6
90°-150°	2575.2	42.5
90°-180°	3560.0	58.7
0°-180°	6062.0	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	24	7
95°	64	66	76	83	85	67
105°	226	231	237	243	246	241
115°	428	432	434	433	432	423
125°	624	630	631	629	628	559
135°	812	818	819	819	815	626
145°	984	988	991	991	988	615
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

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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	23.8
92.5°	29.8	34.7	43.7	50.6	52.6
95°	64.5	66.5	76.4	83.4	85.4
97.5°	99.3	100.3	114.2	120.1	121.1
100°	139.0	139.0	151.9	160.8	162.8
102.5°	181.7	186.6	191.6	201.5	204.5
105°	226.3	231.3	237.2	243.2	246.2
107.5°	275.0	279.9	284.9	287.9	287.9
110°	325.6	330.6	333.5	336.5	335.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.2	379.2	383.2	384.2	382.2
115°	427.8	431.8	433.8	432.8	431.8
117.5°	479.5	480.4	482.4	483.4	479.5
120°	527.1	532.1	533.1	533.1	529.1
122.5°	578.7	579.7	582.7	581.7	578.7
125°	624.4	630.3	631.3	629.3	628.4
127.5°	675.0	678.0	679.0	678.0	676.0
130°	719.7	724.6	726.6	725.6	723.7
132.5°	764.3	773.3	772.3	771.3	768.3
135°	812.0	818.0	818.9	818.9	815.0
137.5°	856.7	862.6	864.6	865.6	860.6
140°	899.4	904.3	907.3	909.3	904.3
142.5°	942.0	946.0	950.0	951.0	946.0
145°	983.7	987.7	990.7	990.7	987.7
147.5°	1022.4	1025.4	1027.4	1030.4	1022.4
150°	1061.2	1060.2	1064.1	1064.1	1062.1
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)