

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: P1028040

Luminaire Tested: S125DIP-B610D1270UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028040
REPORT IS A COMBINATION OF REPORTS P1002219 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB35-4F0-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

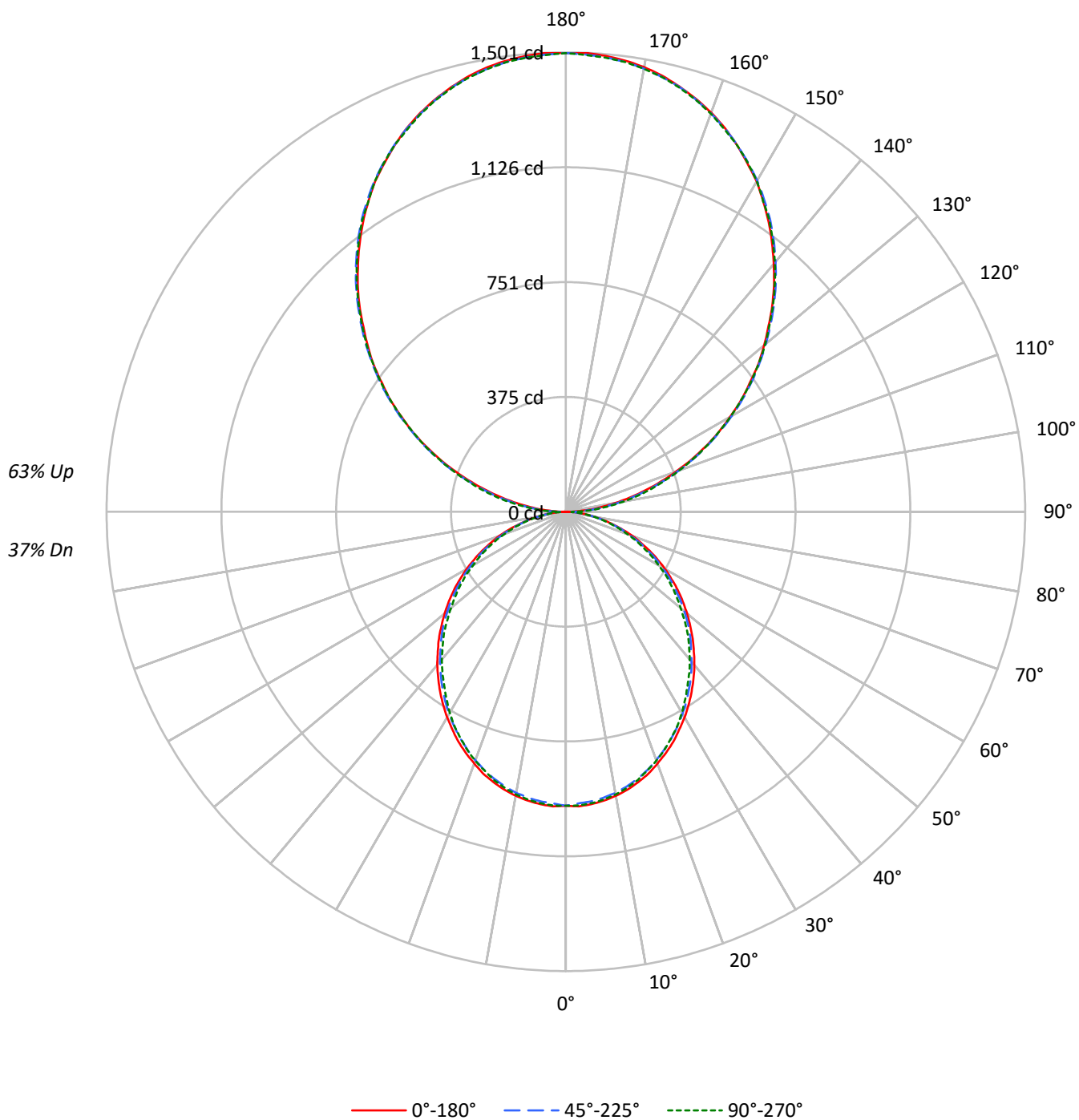
Lumens per Lamp: N/A
Luminaire Lumens: 6685.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	95	91	87	83	86	82	79	76	67	65	62	52	51	50	39	38	38
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32
3	79	69	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	20	18
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11

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	1.4
10°-20°	256.0	3.8
20°-30°	378.0	5.7
30°-40°	441.0	6.6
40°-50°	442.9	6.6
50°-60°	388.8	5.8
60°-70°	289.6	4.3
70°-80°	165.4	2.5
80°-90°	50.1	0.7
90°-100°	99.7	1.5
100°-110°	296.1	4.4
110°-120°	502.1	7.5
120°-130°	661.0	9.9
130°-140°	740.7	11.1
140°-150°	726.0	10.9
150°-160°	609.8	9.1
160°-170°	405.4	6.1
170°-180°	141.9	2.1
0°-30°	724.6	10.8
0°-40°	1165.6	17.4
0°-60°	1997.3	29.9
0°-90°	2502.3	37.4
90°-120°	897.8	13.4
90°-150°	3025.6	45.3
90°-180°	4183.0	62.6
0°-180°	6685.0	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	10	19	24	28	8
95°	76	78	90	98	100	79
105°	266	272	279	286	289	284
115°	503	507	510	508	507	497
125°	734	741	742	739	738	657
135°	954	961	962	962	958	735
145°	1156	1160	1164	1164	1160	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

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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°	1.2	10.5	18.7	24.5	28.0
92.5°	35.0	40.8	51.3	59.5	61.8
95°	75.8	78.1	89.8	98.0	100.3
97.5°	116.6	117.8	134.1	141.1	142.3
100°	163.3	163.3	178.4	188.9	191.3
102.5°	213.4	219.3	225.1	236.8	240.3
105°	265.9	271.7	278.7	285.7	289.2
107.5°	323.1	328.9	334.7	338.2	338.2
110°	382.5	388.4	391.9	395.4	394.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	443.2	445.5	450.2	451.4	449.0
115°	502.7	507.3	509.7	508.5	507.3
117.5°	563.3	564.5	566.8	568.0	563.3
120°	619.3	625.1	626.3	626.3	621.6
122.5°	679.9	681.1	684.6	683.4	679.9
125°	733.6	740.6	741.8	739.4	738.3
127.5°	793.1	796.6	797.7	796.6	794.2
130°	845.6	851.4	853.7	852.6	850.2
132.5°	898.0	908.5	907.4	906.2	902.7
135°	954.0	961.0	962.2	962.2	957.5
137.5°	1006.5	1013.5	1015.8	1017.0	1011.2
140°	1056.6	1062.5	1066.0	1068.3	1062.5
142.5°	1106.8	1111.5	1116.1	1117.3	1111.5
145°	1155.8	1160.4	1163.9	1163.9	1160.4
147.5°	1201.3	1204.8	1207.1	1210.6	1201.3
150°	1246.8	1245.6	1250.3	1250.3	1247.9
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)