

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: P1027682

Luminaire Tested: S125DIP-B1270D610UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027682
REPORT IS A COMBINATION OF REPORTS P1001735 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

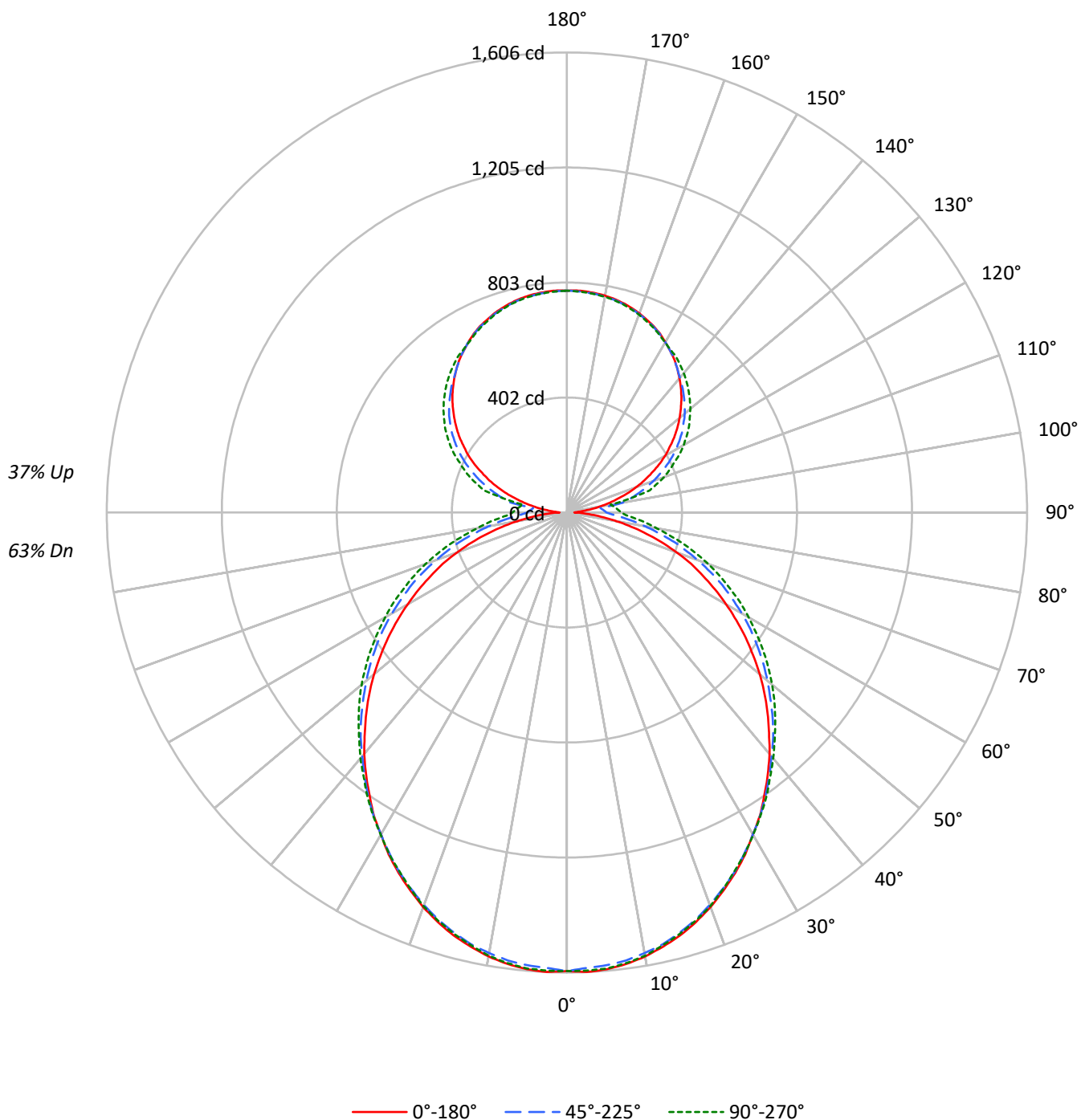
Lumens per Lamp: N/A
Luminaire Lumens: 7339.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	104	104	104	104	91	91	91	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	73	68	66	64	59	57	56
2	91	82	76	70	85	77	72	67	68	64	60	59	56	53	51	49	46
3	82	72	64	58	77	68	61	55	60	54	50	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	42	38	40	37	33
5	69	57	48	42	64	54	46	40	47	41	36	42	37	33	36	32	29
6	64	51	42	36	59	48	40	35	43	36	32	38	32	28	33	29	25
7	59	46	38	32	55	43	36	30	39	32	28	34	29	25	30	26	23
8	55	42	34	28	51	40	32	27	35	29	25	31	26	22	28	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	28	23	45	33	26	22	30	24	20	27	22	18	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.1
10°-20°	430.0	5.9
20°-30°	639.5	8.7
30°-40°	757.3	10.3
40°-50°	782.9	10.7
50°-60°	721.2	9.8
60°-70°	583.0	7.9
70°-80°	390.1	5.3
80°-90°	202.8	2.8
90°-100°	139.9	1.9
100°-110°	258.5	3.5
110°-120°	370.8	5.1
120°-130°	435.7	5.9
130°-140°	448.4	6.1
140°-150°	410.5	5.6
150°-160°	329.9	4.5
160°-170°	213.3	2.9
170°-180°	73.6	1.0
0°-30°	1221.0	16.6
0°-40°	1978.3	27.0
0°-60°	3482.4	47.5
0°-90°	4658.4	63.5
90°-120°	769.2	10.5
90°-150°	2063.8	28.1
90°-180°	2681.0	36.5
0°-180°	7339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	80	138	177	190	19
95°	53	92	124	161	172	56
105°	183	210	257	289	299	194
115°	326	340	382	408	414	323
125°	457	459	491	514	520	408
135°	565	567	577	596	600	436
145°	653	653	653	661	664	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	25.7	80.5	137.9	176.9	189.6
92.5°	32.9	73.2	131.6	169.0	180.5
95°	53.1	92.2	123.8	161.2	172.2
97.5°	80.2	121.4	118.6	152.7	164.3
100°	113.2	147.8	200.3	147.8	154.9
102.5°	146.6	178.7	228.5	261.1	222.3
105°	182.9	210.3	257.4	288.8	299.2
107.5°	220.4	242.3	289.0	320.9	328.0
110°	256.7	275.5	320.6	348.7	360.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	292.3	308.1	351.1	377.0	386.8
115°	326.3	340.2	381.5	407.5	413.5
117.5°	362.0	369.9	411.4	434.7	444.5
120°	396.4	400.7	438.5	463.9	470.5
122.5°	425.4	429.7	464.9	488.9	494.8
125°	456.9	459.4	490.8	513.6	519.7
127.5°	485.8	487.0	513.2	535.6	540.4
130°	513.3	514.6	537.2	557.4	562.4
132.5°	539.3	542.7	556.7	578.7	582.1
135°	565.1	567.1	576.9	596.2	600.5
137.5°	589.2	591.2	596.2	615.1	618.6
140°	611.3	612.4	613.3	631.8	634.6
142.5°	632.5	631.5	632.6	646.7	649.6
145°	653.2	652.7	652.7	661.1	663.9
147.5°	669.9	669.9	670.5	674.2	673.4
150°	687.2	686.0	687.2	688.3	685.3
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)