

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: P1028258

Luminaire Tested: S125DIP-B850D1270UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028258
REPORT IS A COMBINATION OF REPORTS P1002515 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB35-4F0-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

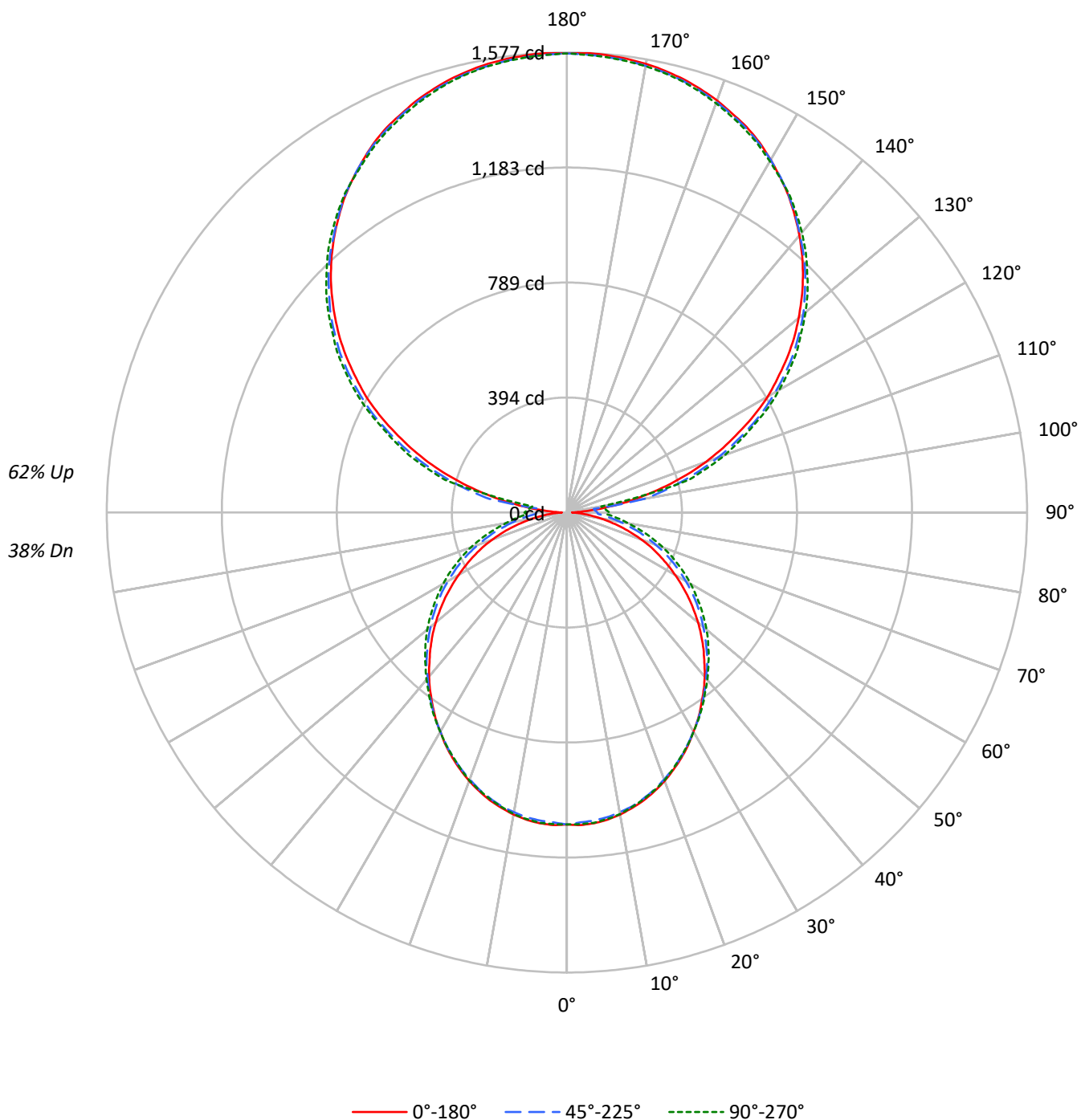
Lumens per Lamp: N/A
Luminaire Lumens: 8149.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38		
1	95	90	86	82	86	82	78	75	66	64	62	52	51	49	39	38	37	31		
2	86	78	72	67	78	71	66	61	58	54	51	45	43	40	34	32	31	26		
3	78	69	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26	21		
4	71	61	53	47	64	55	48	43	45	40	36	35	32	29	27	24	22	18		
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16		
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17	14		
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15	12		
8	51	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13	11		
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10		
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.2
10°-20°	287.3	3.5
20°-30°	427.2	5.2
30°-40°	505.9	6.2
40°-50°	523.1	6.4
50°-60°	481.9	5.9
60°-70°	389.5	4.8
70°-80°	260.6	3.2
80°-90°	137.0	1.7
90°-100°	129.3	1.6
100°-110°	411.1	5.0
110°-120°	677.0	8.3
120°-130°	842.1	10.3
130°-140°	892.2	10.9
140°-150°	830.4	10.2
150°-160°	670.3	8.2
160°-170°	433.5	5.3
170°-180°	149.5	1.8
0°-30°	815.7	10.0
0°-40°	1321.6	16.2
0°-60°	2326.6	28.6
0°-90°	3113.7	38.2
90°-120°	1217.3	14.9
90°-150°	3782.0	46.4
90°-180°	5035.0	61.8
0°-180°	8149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	61	105	135	145	15
95°	80	104	95	124	131	92
105°	352	374	405	426	432	373
115°	650	663	692	706	705	645
125°	920	927	948	960	962	821
135°	1144	1150	1155	1166	1165	882
145°	1325	1326	1326	1333	1330	828
155°	1458	1451	1453	1457	1448	672
165°	1539	1532	1533	1540	1530	435
175°	1574	1567	1568	1577	1567	150
180°	1574	1574	1574	1574	1574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	18.0	60.8	104.7	134.6	145.4
92.5°	36.9	56.8	100.5	129.3	137.9
95°	80.1	103.9	95.2	124.1	131.4
97.5°	137.4	169.5	93.3	117.7	126.2
100°	206.3	231.9	270.1	118.3	119.9
102.5°	276.5	301.0	335.9	359.2	267.5
105°	352.3	373.8	405.3	426.2	432.4
107.5°	430.7	445.4	478.1	500.2	501.8
110°	506.5	519.1	550.9	567.3	575.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.9	591.9	621.3	635.6	640.5
115°	650.2	663.3	691.8	706.0	705.3
117.5°	724.9	730.2	761.1	771.9	776.9
120°	794.9	796.9	824.5	840.0	840.5
122.5°	855.7	862.6	886.8	901.3	900.6
125°	919.9	926.9	947.9	960.1	961.8
127.5°	980.6	985.4	1002.1	1015.4	1012.4
130°	1036.6	1041.4	1057.3	1068.5	1067.9
132.5°	1091.6	1098.6	1105.6	1120.3	1118.6
135°	1144.1	1150.0	1155.0	1166.3	1164.6
137.5°	1193.1	1199.0	1200.8	1213.4	1211.8
140°	1239.8	1242.1	1242.1	1255.9	1253.1
142.5°	1282.9	1283.1	1285.4	1294.8	1292.1
145°	1324.9	1326.3	1326.3	1332.6	1329.8
147.5°	1361.3	1361.3	1362.4	1365.7	1359.6
150°	1396.3	1393.9	1396.3	1398.6	1390.3
152.5°	1430.1	1424.3	1426.6	1428.9	1420.8
155°	1458.1	1451.1	1453.4	1456.9	1447.6
157.5°	1480.2	1476.8	1476.8	1480.2	1470.9
160°	1503.6	1496.6	1497.7	1502.4	1493.1
162.5°	1522.2	1515.2	1516.4	1523.4	1512.9
165°	1538.6	1531.6	1532.7	1539.7	1530.4
167.5°	1551.4	1544.4	1545.6	1553.7	1543.2
170°	1561.9	1553.7	1554.9	1564.2	1553.7
172.5°	1568.9	1560.7	1563.1	1571.2	1560.7
175°	1573.6	1566.6	1567.7	1577.1	1566.6
177.5°	1577.1	1570.1	1571.2	1579.4	1570.1
180°	1573.6	1573.6	1573.6	1573.6	1573.6

(END OF REPORT)