

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: P1028276

Luminaire Tested: S125DIP-B850D1270UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028276
REPORT IS A COMBINATION OF REPORTS P1002533 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

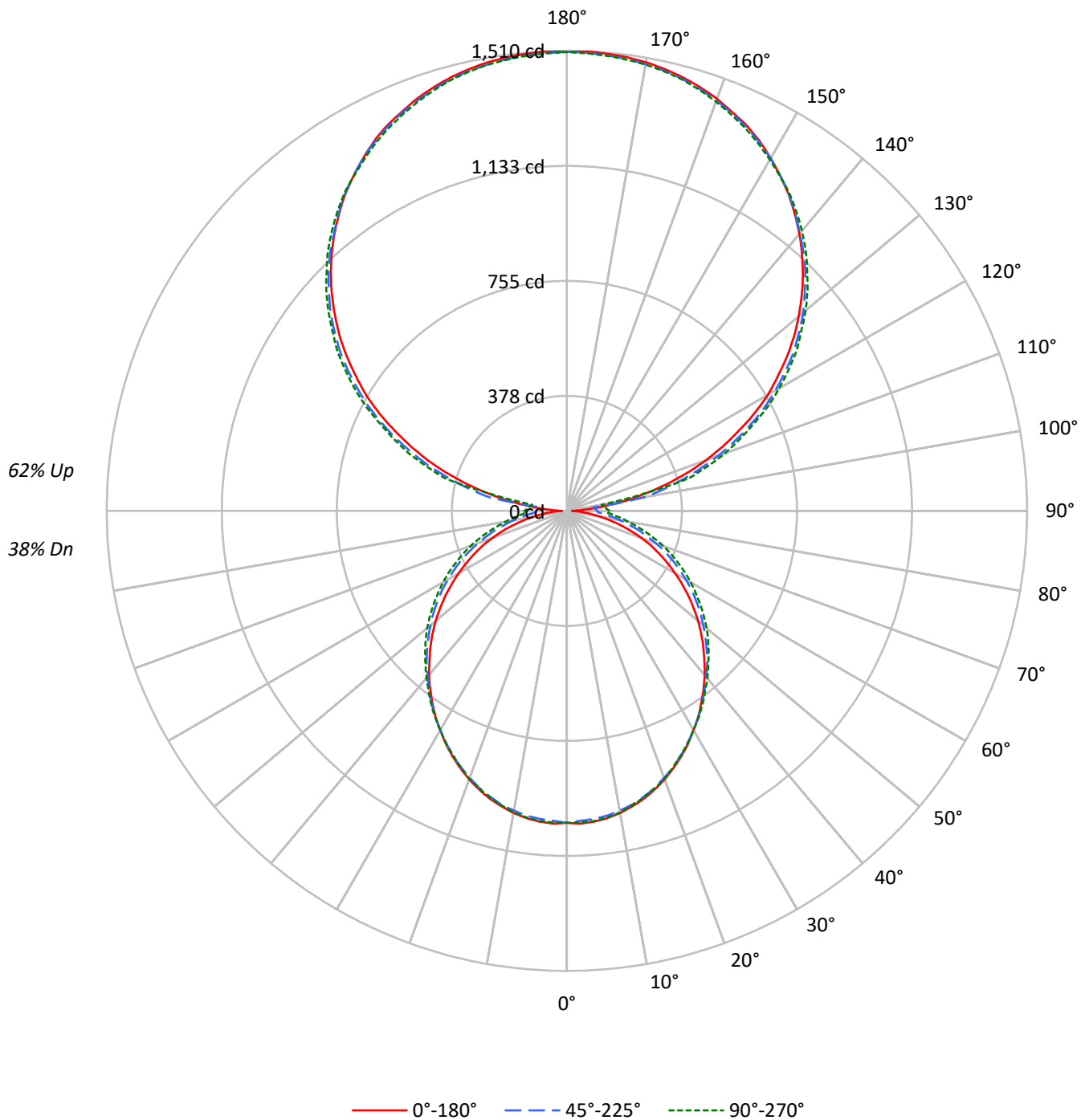
Lumens per Lamp: N/A
Luminaire Lumens: 7802.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.2
10°-20°	275.1	3.5
20°-30°	409.0	5.2
30°-40°	484.4	6.2
40°-50°	500.8	6.4
50°-60°	461.3	5.9
60°-70°	372.9	4.8
70°-80°	249.5	3.2
80°-90°	131.2	1.7
90°-100°	123.8	1.6
100°-110°	393.6	5.0
110°-120°	648.1	8.3
120°-130°	806.2	10.3
130°-140°	854.2	10.9
140°-150°	795.1	10.2
150°-160°	641.7	8.2
160°-170°	415.0	5.3
170°-180°	143.1	1.8
0°-30°	781.0	10.0
0°-40°	1265.4	16.2
0°-60°	2227.5	28.6
0°-90°	2981.2	38.2
90°-120°	1165.5	14.9
90°-150°	3621.0	46.4
90°-180°	4821.0	61.8
0°-180°	7802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	17	58	100	129	139	14
95°	77	100	91	119	126	88
105°	337	358	388	408	414	357
115°	622	635	662	676	675	617
125°	881	888	908	919	921	787
135°	1095	1101	1106	1117	1115	844
145°	1268	1270	1270	1276	1273	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	17.2	58.3	100.2	128.9	139.2
92.5°	35.3	54.4	96.2	123.9	132.0
95°	76.8	99.5	91.2	118.9	125.9
97.5°	131.5	162.3	89.4	112.6	120.9
100°	197.5	222.0	258.5	113.2	114.9
102.5°	264.6	288.2	321.5	343.9	256.1
105°	337.3	357.9	388.0	408.1	414.0
107.5°	412.3	426.4	457.7	478.9	480.5
110°	485.0	497.1	527.4	543.2	551.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	554.2	566.7	594.9	608.4	613.3
115°	622.5	635.1	662.4	675.9	675.2
117.5°	694.1	699.1	728.6	739.0	743.8
120°	761.1	762.9	789.4	804.3	804.7
122.5°	819.3	825.8	849.1	862.9	862.2
125°	880.7	887.5	907.6	919.2	920.9
127.5°	938.9	943.4	959.4	972.2	969.4
130°	992.5	997.1	1012.3	1022.9	1022.3
132.5°	1045.1	1051.8	1058.4	1072.5	1070.9
135°	1095.3	1101.0	1105.8	1116.7	1115.0
137.5°	1142.2	1147.9	1149.7	1161.8	1160.2
140°	1187.0	1189.3	1189.1	1202.5	1199.8
142.5°	1228.3	1228.5	1230.7	1239.7	1237.1
145°	1268.5	1269.8	1269.8	1275.9	1273.2
147.5°	1303.3	1303.3	1304.4	1307.5	1301.7
150°	1336.8	1334.6	1336.8	1339.0	1331.1
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)