

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: P1028240

Luminaire Tested: S125DIP-B850D1270UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028240
REPORT IS A COMBINATION OF REPORTS P1002482 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

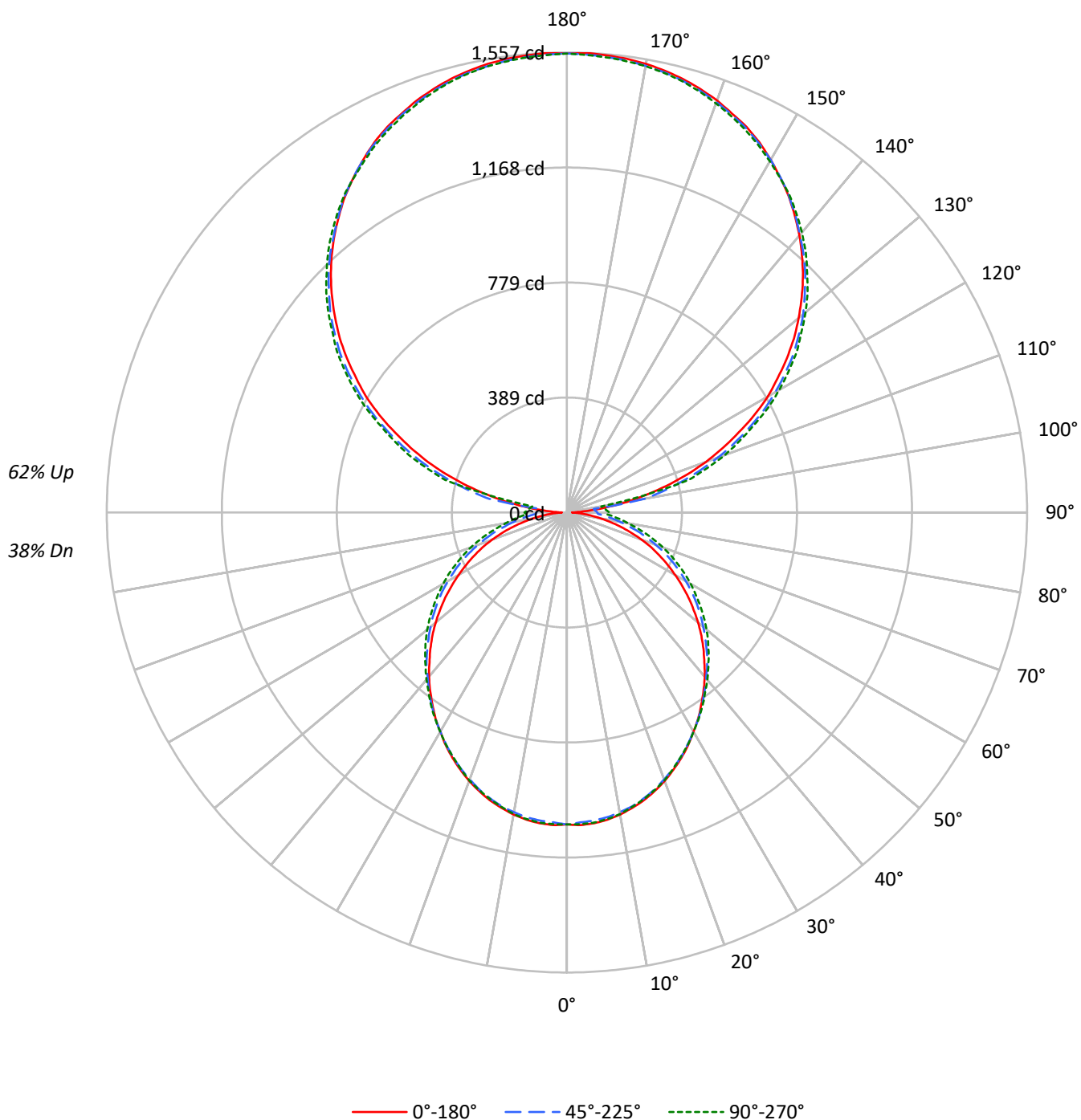
Lumens per Lamp: N/A
Luminaire Lumens: 8045.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	36	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°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.2
10°-20°	283.6	3.5
20°-30°	421.8	5.2
30°-40°	499.5	6.2
40°-50°	516.4	6.4
50°-60°	475.7	5.9
60°-70°	384.6	4.8
70°-80°	257.3	3.2
80°-90°	135.3	1.7
90°-100°	127.6	1.6
100°-110°	405.8	5.0
110°-120°	668.3	8.3
120°-130°	831.3	10.3
130°-140°	880.7	10.9
140°-150°	819.8	10.2
150°-160°	661.7	8.2
160°-170°	427.9	5.3
170°-180°	147.6	1.8
0°-30°	805.4	10.0
0°-40°	1304.9	16.2
0°-60°	2297.1	28.6
0°-90°	3074.3	38.2
90°-120°	1201.8	14.9
90°-150°	3733.6	46.4
90°-180°	4971.0	61.8
0°-180°	8045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	18	60	103	133	144	15
95°	79	103	94	122	130	91
105°	348	369	400	421	427	368
115°	642	655	683	697	696	636
125°	908	915	936	948	949	811
135°	1129	1135	1140	1151	1150	871
145°	1308	1309	1309	1316	1313	818
155°	1439	1432	1435	1438	1429	663
165°	1519	1512	1513	1520	1511	429
175°	1553	1546	1548	1557	1546	148
180°	1553	1553	1553	1553	1553	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	17.8	60.1	103.3	132.9	143.5
92.5°	36.4	56.0	99.1	127.7	136.1
95°	79.1	102.6	94.0	122.5	129.8
97.5°	135.6	167.4	92.1	116.2	124.6
100°	203.7	228.9	266.7	116.8	118.4
102.5°	272.9	297.2	331.6	354.6	264.0
105°	347.8	369.1	400.1	420.8	426.9
107.5°	425.1	439.6	472.0	493.8	495.4
110°	500.0	512.5	543.9	560.0	568.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.4	584.3	613.3	627.3	632.3
115°	641.8	654.9	682.9	696.9	696.2
117.5°	715.7	720.9	751.3	762.0	767.0
120°	784.8	786.7	814.0	829.3	829.7
122.5°	844.7	851.6	875.5	889.7	889.0
125°	908.0	915.1	935.8	947.8	949.4
127.5°	968.1	972.8	989.3	1002.5	999.5
130°	1023.3	1028.1	1043.8	1054.8	1054.1
132.5°	1077.6	1084.5	1091.4	1105.9	1104.3
135°	1129.4	1135.2	1140.2	1151.3	1149.6
137.5°	1177.8	1183.6	1185.5	1197.9	1196.2
140°	1223.9	1226.2	1226.2	1239.9	1237.1
142.5°	1266.5	1266.7	1269.0	1278.3	1275.6
145°	1308.0	1309.3	1309.3	1315.6	1312.8
147.5°	1343.8	1343.8	1345.0	1348.2	1342.2
150°	1378.4	1376.1	1378.4	1380.7	1372.5
152.5°	1411.8	1406.0	1408.3	1410.6	1402.5
155°	1439.4	1432.5	1434.8	1438.2	1429.0
157.5°	1461.3	1457.8	1457.8	1461.3	1452.1
160°	1484.3	1477.4	1478.5	1483.2	1473.9
162.5°	1502.7	1495.8	1497.0	1503.9	1493.5
165°	1518.8	1511.9	1513.1	1520.0	1510.8
167.5°	1531.5	1524.6	1525.8	1533.8	1523.5
170°	1541.9	1533.8	1535.0	1544.2	1533.8
172.5°	1548.8	1540.7	1543.0	1551.1	1540.7
175°	1553.4	1546.5	1547.6	1556.8	1546.5
177.5°	1556.8	1549.9	1551.1	1559.2	1549.9
180°	1553.4	1553.4	1553.4	1553.4	1553.4

(END OF REPORT)