

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: P1035587

Luminaire Tested: S125DIW-B850D1560UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035587
REPORT IS A COMBINATION OF REPORTS P1004175 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

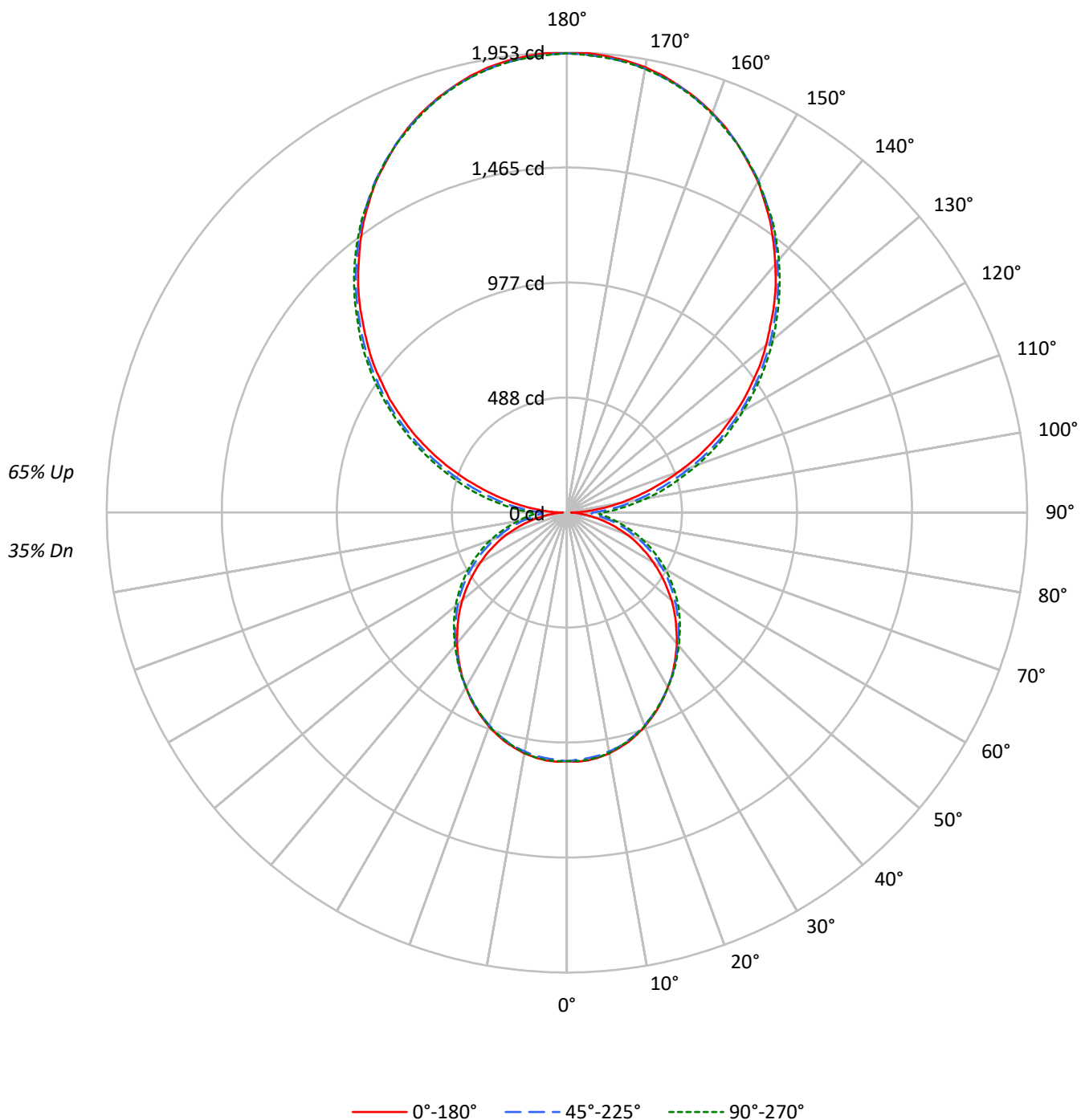
Lumens per Lamp: N/A
Luminaire Lumens: 8715.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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	75	75	75	58	58	58	43	43	43
1	94	89	85	82	85	81	78	75	65	63	60	50	49	47	37	36	35
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	55	48	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	49	42	36	39	34	30	31	27	24	23	20	18
6	60	48	40	34	54	43	36	31	35	30	26	28	24	21	20	18	16
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10

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	1.1
10°-20°	283.6	3.3
20°-30°	421.8	4.8
30°-40°	499.5	5.7
40°-50°	516.4	5.9
50°-60°	475.7	5.5
60°-70°	384.6	4.4
70°-80°	257.3	3.0
80°-90°	136.1	1.6
90°-100°	204.6	2.3
100°-110°	440.4	5.1
110°-120°	690.1	7.9
120°-130°	880.8	10.1
130°-140°	972.7	11.2
140°-150°	946.3	10.9
150°-160°	793.3	9.1
160°-170°	527.3	6.1
170°-180°	184.5	2.1
0°-30°	805.4	9.2
0°-40°	1304.9	15.0
0°-60°	2297.1	26.4
0°-90°	3075.0	35.3
90°-120°	1335.1	15.3
90°-150°	4134.8	47.4
90°-180°	5640.0	64.7
0°-180°	8715.0	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	63	109	141	152	18
95°	112	142	192	226	236	114
105°	355	379	420	449	461	379
115°	660	674	703	720	725	653
125°	958	966	989	1002	1006	858
135°	1243	1251	1260	1273	1272	958
145°	1504	1510	1514	1519	1519	940
155°	1720	1720	1722	1728	1720	792
165°	1871	1868	1869	1875	1866	528
175°	1945	1939	1939	1948	1937	185
180°	1950	1950	1950	1950	1950	

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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°	18.1	63.4	109.2	140.6	152.3
92.5°	60.0	97.6	147.5	180.9	191.2
95°	112.1	142.0	192.4	225.7	236.1
97.5°	164.1	190.5	245.9	276.8	285.5
100°	223.8	245.5	298.4	333.8	343.0
102.5°	288.0	315.2	354.9	390.8	401.5
105°	355.2	379.4	419.5	449.3	461.2
107.5°	428.5	450.6	488.2	513.5	519.7
110°	504.8	524.9	558.5	582.6	588.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.7	596.1	630.1	650.2	654.5
115°	660.1	673.5	703.4	720.5	725.2
117.5°	738.0	744.7	773.5	792.6	793.9
120°	810.8	821.5	846.8	864.4	864.5
122.5°	888.6	891.2	918.6	933.5	935.2
125°	958.4	966.5	988.7	1002.3	1005.8
127.5°	1034.8	1038.3	1057.4	1071.4	1074.6
130°	1103.0	1109.6	1127.1	1140.1	1142.2
132.5°	1170.3	1184.0	1192.7	1205.7	1205.4
135°	1243.1	1251.1	1259.9	1273.3	1272.5
137.5°	1311.4	1319.4	1326.6	1340.5	1337.1
140°	1375.5	1383.1	1388.8	1403.2	1399.7
142.5°	1440.8	1445.8	1451.9	1462.7	1459.3
145°	1504.5	1509.6	1514.1	1519.3	1518.9
147.5°	1562.7	1567.2	1570.2	1576.9	1566.8
150°	1621.8	1620.3	1626.4	1626.4	1624.3
152.5°	1670.4	1673.4	1674.9	1679.5	1673.4
155°	1720.4	1720.4	1722.0	1728.0	1720.4
157.5°	1766.0	1762.9	1764.4	1770.5	1759.9
160°	1805.4	1800.8	1802.4	1808.4	1800.8
162.5°	1840.3	1837.3	1837.3	1844.8	1835.7
165°	1870.6	1867.6	1869.1	1875.2	1866.1
167.5°	1897.9	1891.9	1891.9	1901.0	1891.9
170°	1919.2	1913.1	1913.1	1922.2	1911.6
172.5°	1934.4	1928.3	1928.3	1937.4	1928.3
175°	1945.0	1938.9	1938.9	1948.0	1937.4
177.5°	1952.6	1946.5	1945.0	1954.1	1943.5
180°	1949.5	1949.5	1949.5	1949.5	1949.5

(END OF REPORT)