

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: P1034500

Luminaire Tested: S125DIW-B375D1560UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034500
REPORT IS A COMBINATION OF REPORTS P1003529 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1560UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

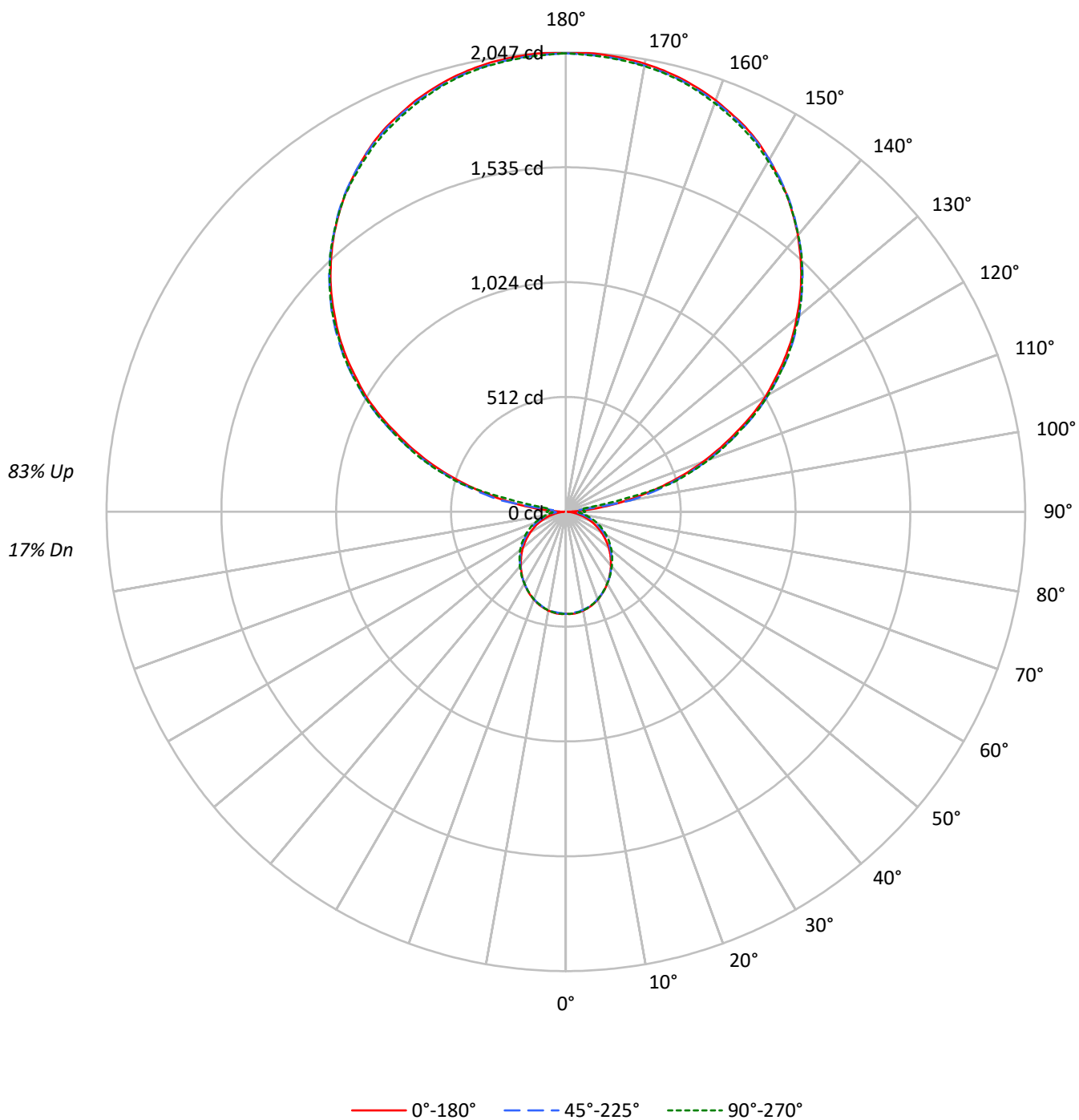
Lumens per Lamp: N/A
Luminaire Lumens: 7687.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26
1	90	86	82	79	79	76	73	70	56	54	53	39	38	37	23	22	21
2	82	75	69	64	72	66	61	57	49	46	43	34	32	30	20	19	18
3	75	66	59	53	65	58	52	47	43	39	36	30	27	25	17	16	15
4	68	58	50	45	60	51	45	40	38	34	31	26	24	22	15	14	13
5	62	51	44	38	55	45	39	34	34	30	26	24	21	18	14	12	11
6	57	46	38	33	50	40	34	29	30	26	23	21	18	16	12	11	10
7	53	41	33	28	46	36	30	25	27	23	20	19	16	14	11	10	9
8	49	37	30	25	43	33	27	22	25	20	17	17	14	12	10	9	8
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7
10	42	31	24	19	37	27	21	17	21	16	14	15	12	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.6
10°-20°	122.2	1.6
20°-30°	181.7	2.4
30°-40°	215.2	2.8
40°-50°	222.5	2.9
50°-60°	204.9	2.7
60°-70°	165.7	2.2
70°-80°	110.8	1.4
80°-90°	60.3	0.8
90°-100°	101.6	1.3
100°-110°	484.8	6.3
110°-120°	846.2	11.0
120°-130°	1074.7	14.0
130°-140°	1150.1	15.0
140°-150°	1076.5	14.0
150°-160°	870.1	11.3
160°-170°	562.7	7.3
170°-180°	194.1	2.5
0°-30°	346.9	4.5
0°-40°	562.1	7.3
0°-60°	989.5	12.9
0°-90°	1326.3	17.3
90°-120°	1432.6	18.6
90°-150°	4733.8	61.6
90°-180°	6361.0	82.8
0°-180°	7687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	9	35	61	79	86	9
95°	92	99	57	74	77	110
105°	449	462	476	485	486	476
115°	839	849	862	864	858	831
125°	1190	1201	1210	1211	1208	1063
135°	1483	1492	1492	1495	1488	1144
145°	1719	1722	1722	1726	1718	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	8.6	35.0	60.8	78.6	86.2
92.5°	35.0	34.3	59.0	76.4	81.0
95°	92.1	99.2	56.8	74.2	77.3
97.5°	167.4	187.2	58.1	70.4	75.1
100°	257.8	271.7	292.0	75.8	72.4
102.5°	349.8	364.2	381.1	393.1	268.5
105°	449.2	462.4	475.8	484.7	486.3
107.5°	551.8	558.0	573.9	584.4	581.0
110°	651.2	656.6	672.1	676.0	680.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	745.1	753.6	767.3	769.2	769.3
115°	838.6	849.3	862.4	864.3	857.9
117.5°	936.5	938.8	956.0	954.5	954.6
120°	1027.4	1027.3	1042.0	1046.6	1041.7
122.5°	1107.2	1115.2	1126.5	1130.7	1124.2
125°	1190.5	1200.6	1209.6	1210.7	1208.3
127.5°	1270.3	1277.4	1283.5	1287.2	1277.7
130°	1343.0	1350.1	1357.8	1359.6	1354.2
132.5°	1415.2	1424.3	1424.3	1430.5	1424.7
135°	1483.4	1492.0	1492.1	1494.9	1488.0
137.5°	1547.0	1555.6	1554.3	1559.7	1554.0
140°	1608.6	1611.6	1610.6	1618.5	1611.2
142.5°	1664.6	1665.7	1668.7	1672.7	1665.5
145°	1719.1	1721.7	1721.7	1725.5	1718.2
147.5°	1767.2	1767.2	1768.7	1771.1	1761.4
150°	1812.6	1809.6	1812.6	1815.6	1803.9
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)