

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: P1034499

Luminaire Tested: S125DIW-B375D1560UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034499
REPORT IS A COMBINATION OF REPORTS P1003527 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-D1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

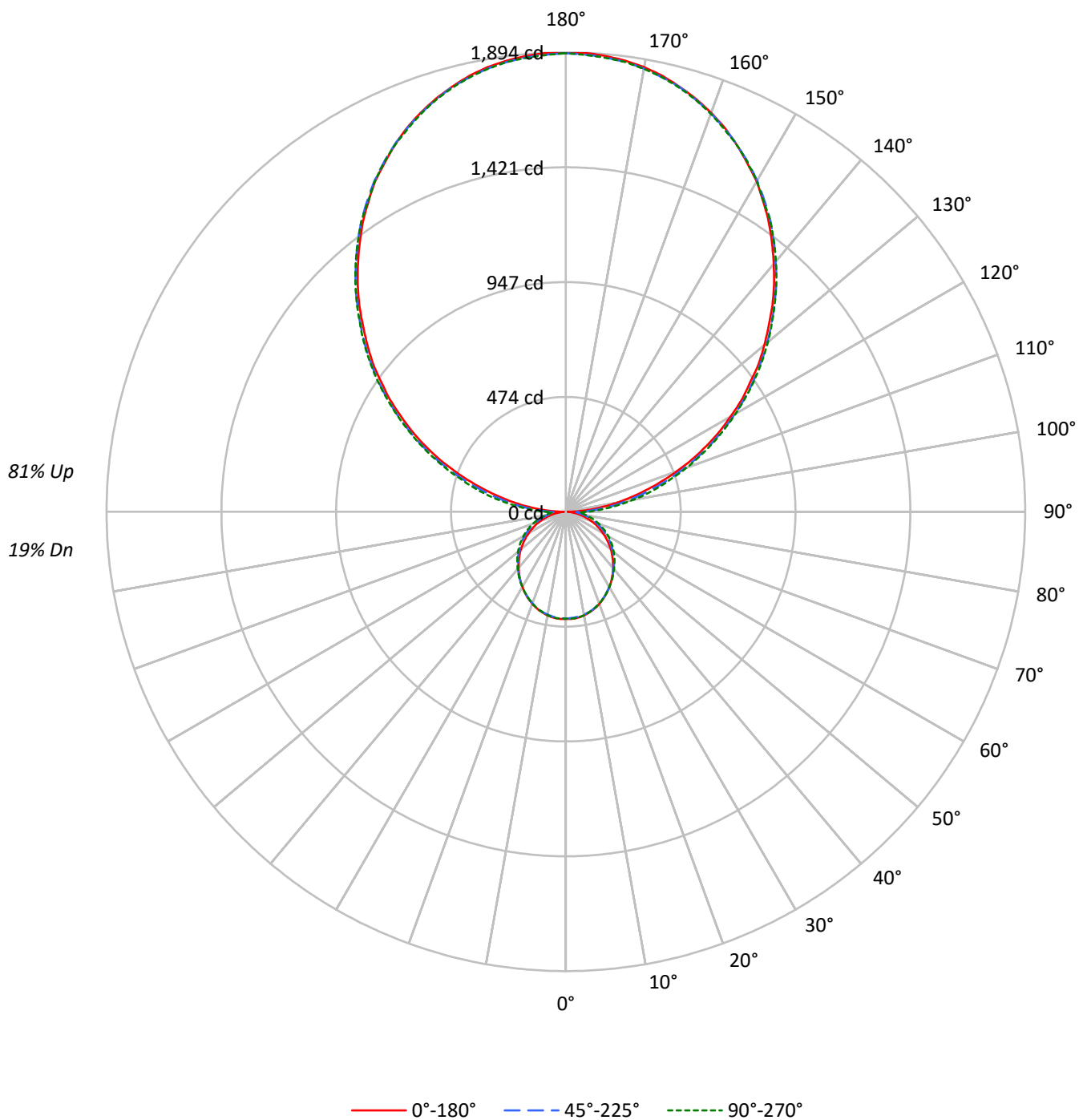
Lumens per Lamp: N/A
Luminaire Lumens: 6647.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19		
1	91	86	83	79	80	76	73	70	57	55	54	40	39	38	24	24	23	16		
2	82	75	69	64	72	66	62	57	50	47	44	35	33	31	21	20	19	13		
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11		
4	68	58	51	45	60	51	45	40	39	35	31	27	25	22	17	15	14	9		
5	63	52	44	38	55	46	39	34	35	30	27	24	21	19	15	13	12	8		
6	58	46	38	33	50	41	34	29	31	26	23	22	19	17	13	12	10	7		
7	53	41	34	28	47	37	30	26	28	23	20	20	17	15	12	10	9	6		
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	9	8	5		
9	45	34	27	22	40	30	24	20	23	19	16	16	14	11	10	9	7	5		
10	42	31	24	19	37	27	22	17	21	17	14	15	12	10	9	8	7	4		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.6
10°-20°	118.5	1.8
20°-30°	176.3	2.7
30°-40°	208.8	3.1
40°-50°	215.8	3.2
50°-60°	198.8	3.0
60°-70°	160.7	2.4
70°-80°	107.6	1.6
80°-90°	58.5	0.9
90°-100°	157.0	2.4
100°-110°	396.6	6.0
110°-120°	648.9	9.8
120°-130°	842.7	12.7
130°-140°	938.3	14.1
140°-150°	916.8	13.8
150°-160°	769.4	11.6
160°-170°	511.5	7.7
170°-180°	179.0	2.7
0°-30°	336.6	5.1
0°-40°	545.3	8.2
0°-60°	960.0	14.4
0°-90°	1286.8	19.4
90°-120°	1202.6	18.1
90°-150°	3900.4	58.7
90°-180°	5360.0	80.6
0°-180°	6647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	8	34	59	76	84	11
95°	101	116	145	165	171	104
105°	339	354	376	393	400	362
115°	637	646	660	666	667	630
125°	927	936	946	950	950	831
135°	1204	1213	1217	1223	1219	928
145°	1459	1464	1468	1471	1468	912
155°	1669	1669	1670	1676	1669	769
165°	1814	1811	1813	1819	1810	512
175°	1886	1880	1880	1889	1879	179
180°	1891	1891	1891	1891	1891	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	8.4	34.0	59.0	76.3	83.8
92.5°	50.2	70.1	98.4	118.3	124.3
95°	101.2	115.5	144.9	164.7	170.6
97.5°	152.3	164.2	199.1	216.9	221.5
100°	210.8	219.8	252.8	275.2	280.7
102.5°	273.6	289.1	310.0	333.3	340.3
105°	339.4	353.6	375.5	392.9	400.4
107.5°	411.1	424.4	444.4	457.4	460.0
110°	485.6	498.2	514.7	527.4	528.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	562.1	569.0	586.6	595.8	595.9
115°	636.8	645.7	659.9	666.2	667.4
117.5°	712.9	716.5	730.2	739.1	736.2
120°	783.5	792.2	803.6	811.0	807.7
122.5°	859.5	861.5	875.4	880.9	879.0
125°	927.2	935.7	945.8	949.8	950.4
127.5°	1001.9	1005.9	1014.7	1019.7	1019.3
130°	1068.1	1075.0	1084.0	1088.6	1087.8
132.5°	1133.9	1147.1	1150.0	1154.5	1151.9
135°	1204.5	1212.9	1217.4	1223.0	1219.2
137.5°	1270.7	1279.1	1283.8	1290.5	1284.8
140°	1333.5	1340.9	1345.8	1353.4	1347.9
142.5°	1396.8	1402.3	1408.2	1413.5	1407.9
145°	1458.6	1464.1	1468.5	1470.7	1468.0
147.5°	1515.6	1520.0	1522.9	1528.3	1517.3
150°	1573.0	1571.5	1577.4	1577.4	1574.8
152.5°	1620.1	1623.0	1624.5	1628.9	1623.0
155°	1668.6	1668.6	1670.1	1676.0	1668.6
157.5°	1712.8	1709.8	1711.3	1717.2	1706.9
160°	1751.0	1746.6	1748.1	1754.0	1746.6
162.5°	1784.9	1781.9	1781.9	1789.3	1780.4
165°	1814.3	1811.3	1812.8	1818.7	1809.9
167.5°	1840.8	1834.9	1834.9	1843.7	1834.9
170°	1861.4	1855.5	1855.5	1864.3	1854.0
172.5°	1876.1	1870.2	1870.2	1879.0	1870.2
175°	1886.4	1880.5	1880.5	1889.3	1879.0
177.5°	1893.7	1887.9	1886.4	1895.2	1884.9
180°	1890.8	1890.8	1890.8	1890.8	1890.8

(END OF REPORT)