

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: P1035304

Luminaire Tested: S125DIW-B375D1560UB35-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035304
REPORT IS A COMBINATION OF REPORTS P1003553 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1560UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

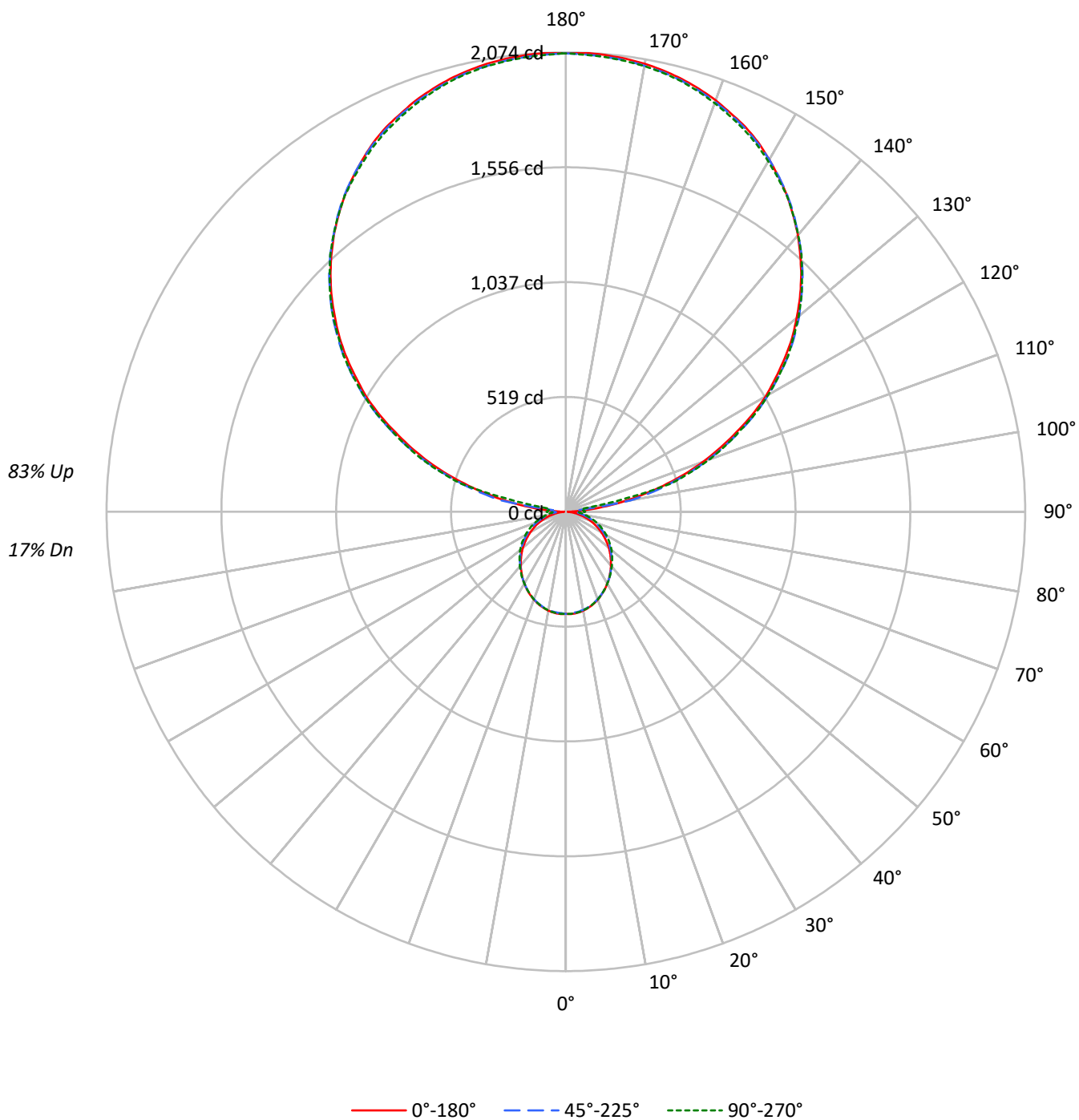
Lumens per Lamp: N/A
Luminaire Lumens: 7788.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.6
10°-20°	123.8	1.6
20°-30°	184.1	2.4
30°-40°	218.1	2.8
40°-50°	225.5	2.9
50°-60°	207.7	2.7
60°-70°	167.9	2.2
70°-80°	112.3	1.4
80°-90°	61.1	0.8
90°-100°	102.9	1.3
100°-110°	491.2	6.3
110°-120°	857.2	11.0
120°-130°	1088.7	14.0
130°-140°	1165.1	15.0
140°-150°	1090.5	14.0
150°-160°	881.5	11.3
160°-170°	570.1	7.3
170°-180°	196.6	2.5
0°-30°	351.6	4.5
0°-40°	569.7	7.3
0°-60°	1002.8	12.9
0°-90°	1344.2	17.3
90°-120°	1451.3	18.6
90°-150°	4795.7	61.6
90°-180°	6444.0	82.7
0°-180°	7788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	9	36	62	80	87	9
95°	93	100	58	75	78	112
105°	455	468	482	491	493	482
115°	850	860	874	876	869	842
125°	1206	1216	1225	1226	1224	1077
135°	1503	1512	1512	1514	1508	1159
145°	1742	1744	1744	1748	1741	1089
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.7	35.5	61.6	79.7	87.4
92.5°	35.4	34.7	59.8	77.4	82.1
95°	93.3	100.4	57.5	75.1	78.3
97.5°	169.5	189.6	58.8	71.4	76.0
100°	261.2	275.3	295.8	76.8	73.3
102.5°	354.3	369.0	386.1	398.2	272.1
105°	455.1	468.5	482.1	491.1	492.7
107.5°	558.9	565.2	581.4	592.0	588.6
110°	659.8	665.2	680.8	684.8	689.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	754.9	763.5	777.2	779.3	779.3
115°	849.5	860.4	873.6	875.7	869.2
117.5°	948.8	951.0	968.5	967.0	967.1
120°	1040.9	1040.6	1055.6	1060.3	1055.3
122.5°	1121.7	1129.8	1141.3	1145.4	1138.9
125°	1206.0	1216.4	1225.4	1226.4	1224.1
127.5°	1286.9	1294.1	1300.3	1304.0	1294.4
130°	1360.6	1367.8	1375.6	1377.4	1371.9
132.5°	1433.7	1442.9	1442.8	1449.2	1443.3
135°	1502.8	1511.6	1511.6	1514.4	1507.5
137.5°	1567.2	1576.0	1574.7	1580.1	1574.2
140°	1629.7	1632.7	1631.6	1639.7	1632.3
142.5°	1686.4	1687.5	1690.5	1694.6	1687.2
145°	1741.7	1744.2	1744.2	1748.1	1740.7
147.5°	1790.3	1790.3	1791.8	1794.2	1784.4
150°	1836.3	1833.2	1836.3	1839.3	1827.6
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)