

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: P1035306

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035306
REPORT IS A COMBINATION OF REPORTS P1003556 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-F
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

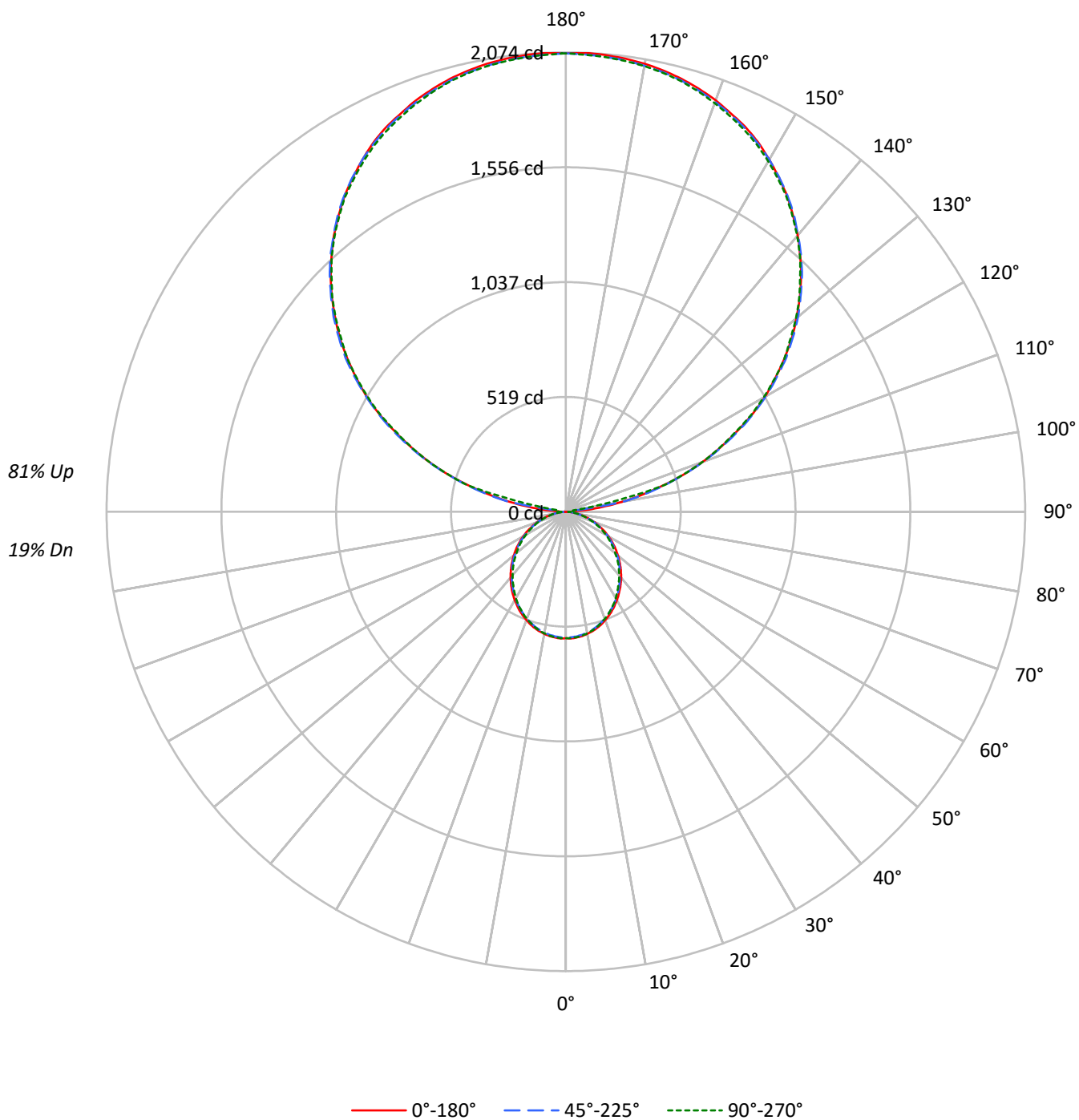
Lumens per Lamp: N/A
Luminaire Lumens: 7846.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23
2	83	76	70	65	73	67	62	58	50	47	45	35	33	32	21	20	19
3	75	66	59	54	66	59	53	48	44	41	37	31	29	27	19	18	17
4	69	59	51	45	60	52	46	41	39	35	32	28	25	23	17	15	14
5	63	52	44	39	55	46	40	35	35	31	27	25	22	20	15	14	12
6	58	46	39	33	51	41	35	30	31	27	23	22	19	17	14	12	11
7	53	42	34	29	47	37	31	26	28	24	20	20	17	15	12	11	10
8	49	38	30	25	43	34	27	23	26	21	18	18	15	13	11	10	9
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	8
10	43	31	24	20	38	28	22	18	21	17	14	15	13	11	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.7
10°-20°	152.2	1.9
20°-30°	224.7	2.9
30°-40°	262.1	3.3
40°-50°	263.3	3.4
50°-60°	231.1	2.9
60°-70°	172.1	2.2
70°-80°	98.3	1.3
80°-90°	31.4	0.4
90°-100°	70.2	0.9
100°-110°	467.1	6.0
110°-120°	841.1	10.7
120°-130°	1079.6	13.8
130°-140°	1161.1	14.8
140°-150°	1089.7	13.9
150°-160°	881.5	11.2
160°-170°	570.1	7.3
170°-180°	196.6	2.5
0°-30°	430.7	5.5
0°-40°	692.8	8.8
0°-60°	1187.2	15.1
0°-90°	1489.1	19.0
90°-120°	1378.3	17.6
90°-150°	4708.7	60.0
90°-180°	6357.0	81.0
0°-180°	7846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	2	14	24	32	37	6
95°	87	83	24	32	32	107
105°	451	457	457	457	456	478
115°	847	854	856	850	841	839
125°	1204	1215	1215	1209	1204	1076
135°	1502	1511	1508	1505	1496	1158
145°	1741	1744	1744	1746	1737	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°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	1.5	13.8	24.5	32.2	36.8
92.5°	29.1	15.3	24.5	32.2	33.7
95°	87.4	82.8	24.5	32.2	32.2
97.5°	164.1	173.3	27.6	30.7	32.2
100°	256.2	260.8	266.9	38.4	32.2
102.5°	349.8	355.9	359.0	362.0	233.2
105°	451.0	457.2	457.2	457.2	455.6
107.5°	555.3	555.3	558.4	559.9	553.8
110°	656.6	656.6	659.6	655.0	656.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.7	756.3	757.8	751.7	748.6
115°	846.8	854.5	856.0	849.9	840.7
117.5°	946.5	946.5	952.7	943.5	940.4
120°	1038.6	1037.0	1041.6	1038.6	1030.9
122.5°	1119.9	1127.5	1129.1	1126.0	1116.8
125°	1204.2	1215.0	1215.0	1208.8	1204.2
127.5°	1285.5	1293.2	1291.7	1288.6	1276.3
130°	1359.2	1366.9	1368.4	1363.8	1356.1
132.5°	1432.8	1442.0	1437.4	1437.4	1429.7
135°	1501.9	1511.1	1508.0	1504.9	1495.7
137.5°	1566.3	1575.5	1572.4	1572.4	1564.7
140°	1629.2	1632.2	1630.7	1633.8	1624.6
142.5°	1685.9	1687.5	1690.5	1690.5	1681.3
145°	1741.2	1744.2	1744.2	1745.8	1736.6
147.5°	1790.3	1790.3	1791.8	1793.3	1782.6
150°	1836.3	1833.2	1836.3	1839.3	1827.1
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)