

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: P1035278

Luminaire Tested: S125DIW-B375D1340UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035278
REPORT IS A COMBINATION OF REPORTS P1003488 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

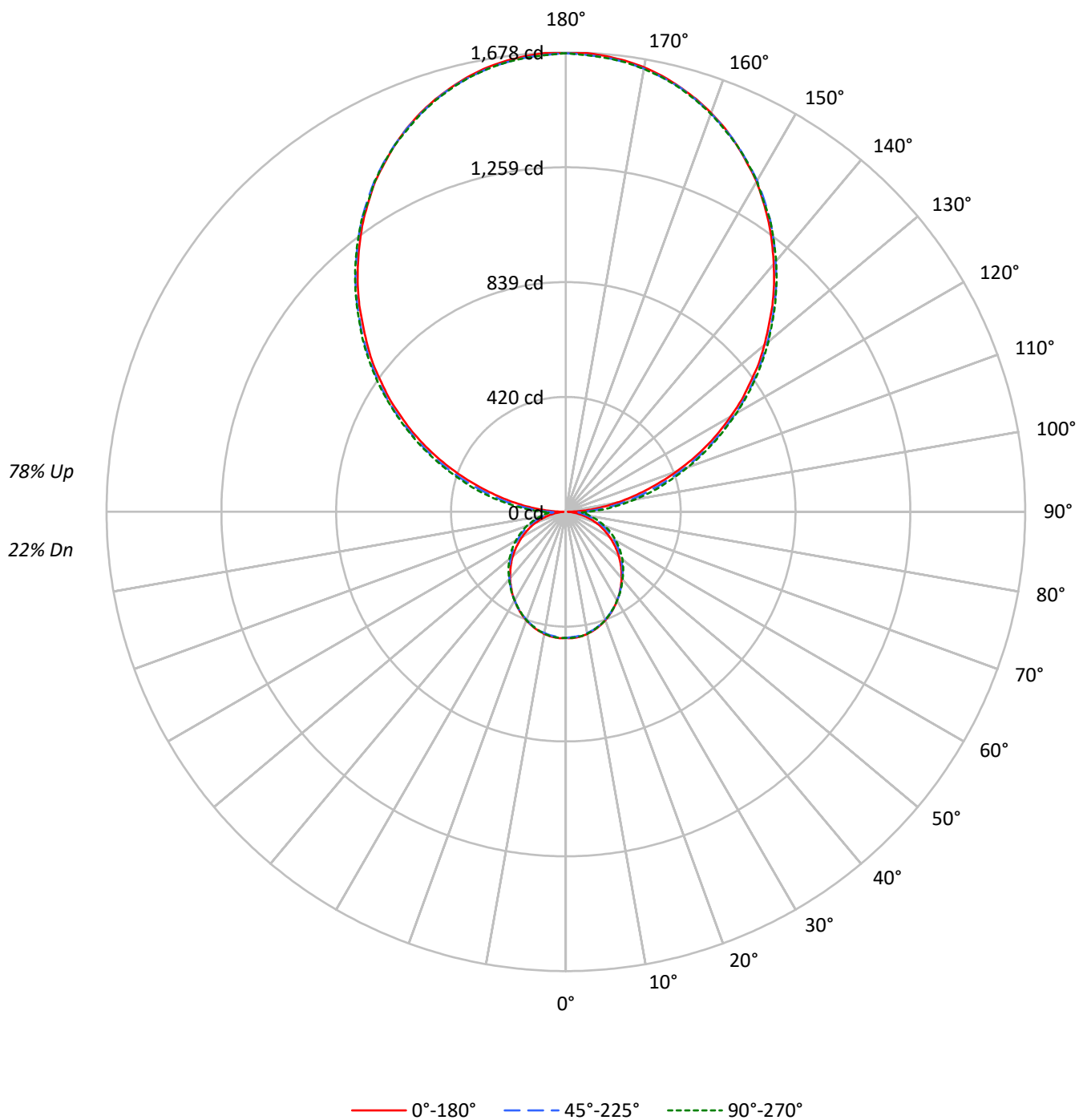
Lumens per Lamp: N/A
Luminaire Lumens: 6105.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
Input Voltage (V):
Input Current (A_{in}): 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	89	89	89	89	68	68	68	48	48	48	30	30	30
1	91	87	83	80	81	77	74	71	59	57	55	42	41	39	26	26	25
2	83	76	70	65	73	67	62	58	51	48	45	37	34	33	23	22	21
3	75	66	59	54	67	59	53	48	45	41	38	32	30	27	20	19	17
4	69	58	51	45	61	52	46	41	40	35	32	28	26	23	18	16	15
5	63	52	44	38	56	46	39	35	35	31	27	25	22	20	16	14	13
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	15	13	11
7	53	42	34	29	47	37	31	26	29	24	20	21	18	15	13	11	10
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7

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	0.7
10°-20°	123.8	2.0
20°-30°	184.1	3.0
30°-40°	218.1	3.6
40°-50°	225.5	3.7
50°-60°	207.7	3.4
60°-70°	167.9	2.8
70°-80°	112.3	1.8
80°-90°	60.7	1.0
90°-100°	144.1	2.4
100°-110°	355.0	5.8
110°-120°	577.3	9.5
120°-130°	747.9	12.3
130°-140°	831.8	13.6
140°-150°	812.2	13.3
150°-160°	681.5	11.2
160°-170°	453.0	7.4
170°-180°	158.5	2.6
0°-30°	351.6	5.8
0°-40°	569.7	9.3
0°-60°	1002.8	16.4
0°-90°	1343.7	22.0
90°-120°	1076.3	17.6
90°-150°	3468.2	56.8
90°-180°	4761.0	78.0
0°-180°	6105.0	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°	8	33	58	75	82	11
95°	91	105	133	152	158	93
105°	301	315	336	353	360	321
115°	564	573	587	594	596	558
125°	822	829	839	844	845	736
135°	1067	1074	1079	1085	1082	823
145°	1292	1297	1301	1303	1301	808
155°	1478	1478	1479	1485	1478	681
165°	1607	1604	1606	1611	1603	453
175°	1671	1666	1666	1674	1664	159
180°	1675	1675	1675	1675	1675	

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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°	8.5	33.4	58.0	74.9	81.9
92.5°	45.4	65.0	92.6	111.7	117.5
95°	90.6	104.9	133.4	152.4	158.2
97.5°	135.7	147.9	181.1	198.4	202.8
100°	187.5	197.0	228.3	249.5	254.9
102.5°	243.0	258.1	278.7	300.8	307.4
105°	301.3	315.0	336.4	353.2	360.3
107.5°	364.6	377.5	397.1	410.1	412.8
110°	430.7	442.6	459.1	471.6	473.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.5	505.1	522.5	532.0	532.5
115°	564.5	572.9	587.2	594.1	595.5
117.5°	631.8	635.3	649.2	658.3	656.2
120°	694.4	702.2	713.9	721.6	719.1
122.5°	761.7	763.5	777.3	783.2	782.0
125°	821.6	829.1	839.4	844.0	844.9
127.5°	887.7	891.1	900.1	905.6	905.7
130°	946.4	952.4	961.3	966.4	966.0
132.5°	1004.5	1016.2	1019.4	1024.5	1022.4
135°	1067.1	1074.5	1078.9	1084.8	1081.9
137.5°	1125.7	1133.1	1137.6	1144.3	1139.5
140°	1181.4	1187.9	1192.2	1199.8	1195.1
142.5°	1237.4	1242.1	1247.3	1252.7	1248.0
145°	1292.2	1296.9	1300.8	1303.1	1301.0
147.5°	1342.5	1346.4	1349.0	1353.8	1344.3
150°	1393.3	1392.0	1397.2	1397.2	1395.1
152.5°	1435.0	1437.6	1438.9	1442.9	1437.6
155°	1478.0	1478.0	1479.3	1484.6	1478.0
157.5°	1517.1	1514.5	1515.8	1521.1	1511.9
160°	1551.0	1547.1	1548.4	1553.6	1547.1
162.5°	1581.0	1578.4	1578.4	1584.9	1577.1
165°	1607.1	1604.5	1605.8	1611.0	1603.2
167.5°	1630.5	1625.3	1625.3	1633.1	1625.3
170°	1648.8	1643.6	1643.6	1651.4	1642.3
172.5°	1661.8	1656.6	1656.6	1664.4	1656.6
175°	1670.9	1665.7	1665.7	1673.6	1664.4
177.5°	1677.5	1672.3	1670.9	1678.8	1669.6
180°	1674.9	1674.9	1674.9	1674.9	1674.9

(END OF REPORT)