

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: P1034487

Luminaire Tested: S125DIW-B375D1340UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034487
REPORT IS A COMBINATION OF REPORTS P1003465 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

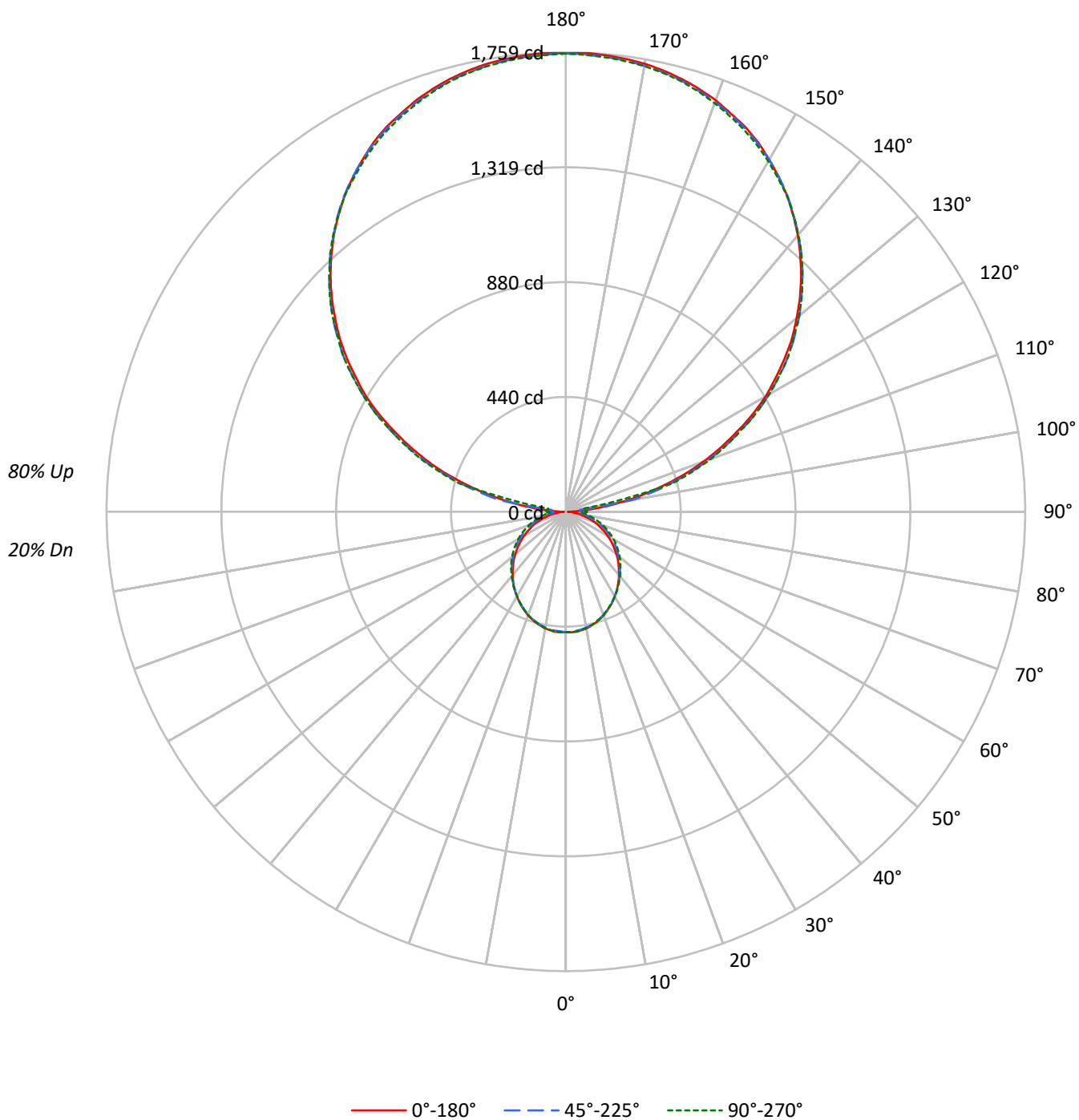
Lumens per Lamp: N/A
Luminaire Lumens: 6821.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
Input Voltage (V):
Input Current (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					0
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	47	47	47	28	28	28	28	28	20
1	91	86	83	79	80	76	73	70	58	56	54	40	39	38	24	24	23	23	23	16
2	82	75	69	64	72	67	62	57	50	47	44	35	33	31	21	20	19	19	19	13
3	75	66	59	53	66	58	52	48	44	40	37	31	29	26	19	17	16	16	16	11
4	68	58	51	45	60	52	45	40	39	35	31	27	25	22	17	15	14	14	14	9
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	13	12	12	12	8
6	58	46	38	33	51	41	34	29	31	26	23	22	19	17	14	12	10	10	10	7
7	53	41	34	28	47	37	30	26	28	23	20	20	17	15	12	11	9	9	9	6
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	10	8	8	8	6
9	46	34	27	22	40	30	24	20	23	19	16	17	14	11	10	9	7	7	7	5
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7	7	7	5

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	1.8
20°-30°	184.1	2.7
30°-40°	218.1	3.2
40°-50°	225.5	3.3
50°-60°	207.7	3.0
60°-70°	167.9	2.5
70°-80°	112.3	1.6
80°-90°	60.7	0.9
90°-100°	92.3	1.4
100°-110°	420.1	6.2
110°-120°	729.3	10.7
120°-130°	924.6	13.6
130°-140°	988.6	14.5
140°-150°	924.9	13.6
150°-160°	747.5	11.0
160°-170°	483.4	7.1
170°-180°	166.7	2.4
0°-30°	351.6	5.2
0°-40°	569.7	8.4
0°-60°	1002.8	14.7
0°-90°	1343.7	19.7
90°-120°	1241.7	18.2
90°-150°	4079.7	59.8
90°-180°	5477.0	80.3
0°-180°	6821.0	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	9
95°	80	88	54	70	73	95
105°	386	399	412	422	423	409
115°	721	730	744	746	741	715
125°	1023	1032	1041	1043	1041	914
135°	1274	1282	1282	1286	1280	983
145°	1477	1479	1479	1483	1477	924
155°	1626	1618	1621	1625	1614	749
165°	1716	1708	1709	1717	1707	485
175°	1755	1747	1748	1759	1747	167
180°	1755	1755	1755	1755	1755	

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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	57.9	74.8	81.8
92.5°	31.0	32.4	56.1	72.5	77.0
95°	80.0	87.8	53.8	70.2	73.4
97.5°	144.6	163.3	54.6	66.7	71.1
100°	222.2	235.6	255.2	70.9	68.4
102.5°	301.1	314.9	331.5	343.2	236.6
105°	386.5	398.9	412.5	421.5	423.4
107.5°	474.5	480.8	496.5	506.9	504.4
110°	560.0	565.4	580.6	585.3	589.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	640.6	648.5	662.0	665.0	665.5
115°	720.8	730.5	743.5	746.5	741.3
117.5°	804.9	807.1	823.6	823.5	824.1
120°	883.0	883.0	897.3	902.4	898.6
122.5°	951.4	958.4	969.6	974.2	969.1
125°	1022.9	1031.7	1040.7	1042.6	1041.0
127.5°	1091.5	1097.5	1103.9	1108.1	1100.4
130°	1153.9	1159.9	1167.5	1170.0	1165.7
132.5°	1215.9	1223.7	1224.3	1230.7	1226.0
135°	1274.4	1281.8	1282.3	1285.6	1280.1
137.5°	1329.0	1336.4	1335.6	1341.0	1336.3
140°	1382.0	1384.6	1383.7	1391.3	1385.3
142.5°	1430.1	1430.9	1433.5	1437.6	1431.6
145°	1476.9	1479.0	1479.0	1482.6	1476.6
147.5°	1518.1	1518.1	1519.4	1521.6	1513.4
150°	1557.1	1554.5	1557.1	1559.7	1549.8
152.5°	1594.8	1588.3	1590.9	1593.5	1584.4
155°	1626.0	1618.2	1620.8	1624.7	1614.3
157.5°	1650.7	1646.8	1646.8	1650.7	1640.3
160°	1676.8	1669.0	1670.3	1675.5	1665.1
162.5°	1697.6	1689.8	1691.1	1698.9	1687.2
165°	1715.8	1708.0	1709.3	1717.1	1706.7
167.5°	1730.1	1722.3	1723.6	1732.7	1721.0
170°	1741.8	1732.7	1734.0	1744.4	1732.7
172.5°	1749.6	1740.5	1743.1	1752.2	1740.5
175°	1754.8	1747.0	1748.3	1758.7	1747.0
177.5°	1758.7	1750.9	1752.2	1761.3	1750.9
180°	1754.8	1754.8	1754.8	1754.8	1754.8

(END OF REPORT)