

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: P1034807

Luminaire Tested: S125RDIW-B375D1340UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034807
REPORT IS A COMBINATION OF REPORTS P1006420 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1340UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

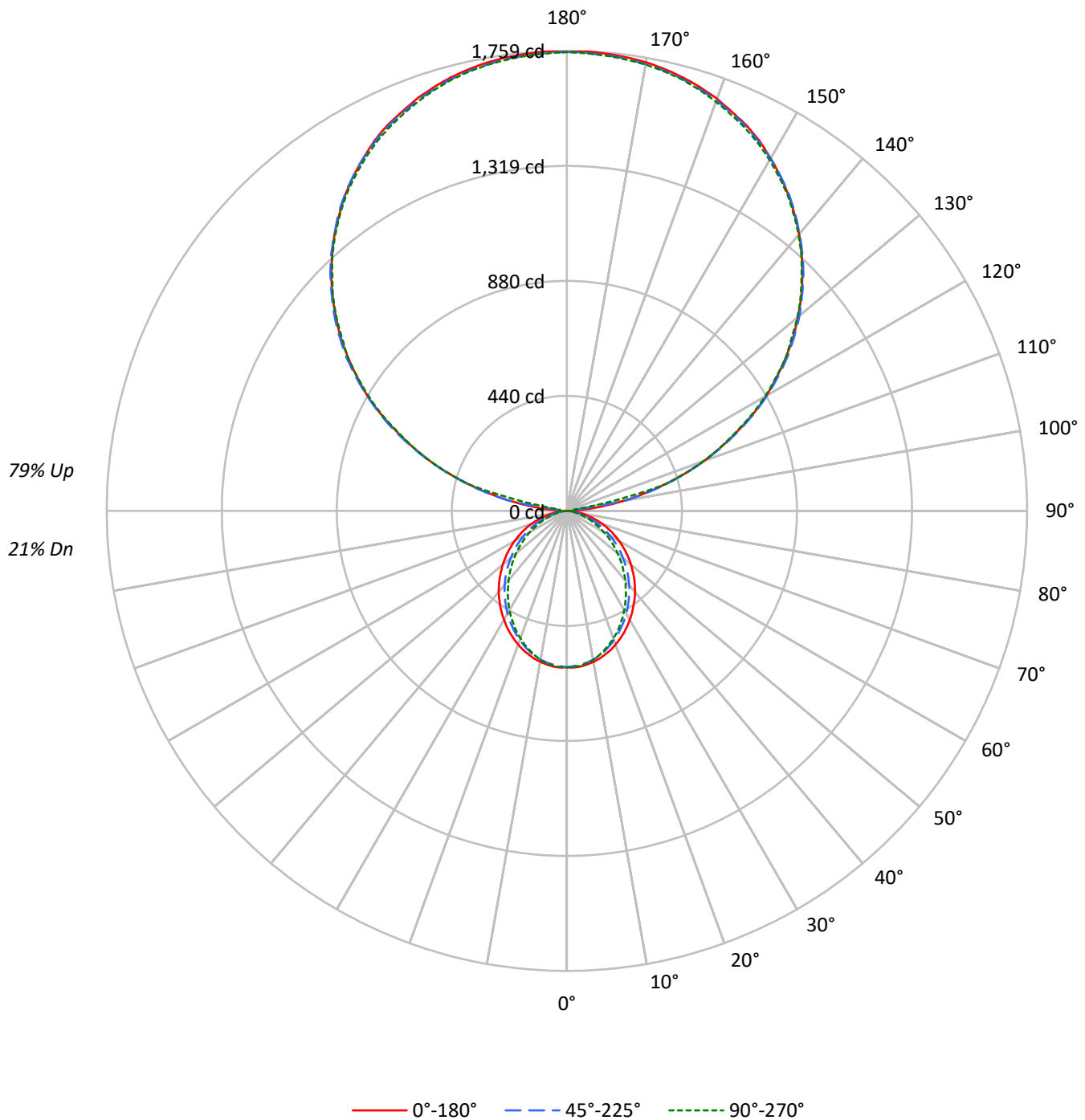
Lumens per Lamp: N/A
Luminaire Lumens: 6806.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				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	67	67	67	47	47	47	29	29	29
1	91	87	84	80	81	77	74	72	59	57	55	42	41	39	26	25	25
2	83	76	70	66	73	68	63	59	52	48	46	37	35	33	23	22	21
3	76	67	60	55	67	60	54	49	45	42	38	32	30	28	20	19	18
4	69	59	52	46	61	53	46	41	40	36	33	29	26	24	18	17	16
5	64	53	45	39	56	47	40	35	36	31	28	26	23	21	16	15	14
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12
7	54	42	35	29	47	38	31	27	29	25	21	21	18	16	14	12	11
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	11	10	8
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3832	3832	3832
5°	3833	3736	3742
10°	3795	3642	3610
15°	3741	3510	3436
20°	3675	3352	3254
25°	3598	3197	3058
30°	3505	3027	2853
35°	3410	2854	2635
40°	3319	2676	2422
45°	3211	2484	2198
50°	3100	2281	1971
55°	2971	2081	1736
60°	2841	1852	1492
65°	2685	1596	1228
70°	2501	1299	967
75°	2251	977	705
80°	1897	632	476
85°	1418	341	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.8
10°-20°	157.3	2.3
20°-30°	228.1	3.4
30°-40°	259.9	3.8
40°-50°	253.3	3.7
50°-60°	213.2	3.1
60°-70°	149.4	2.2
70°-80°	76.6	1.1
80°-90°	21.7	0.3
90°-100°	59.5	0.9
100°-110°	396.0	5.8
110°-120°	713.2	10.5
120°-130°	915.4	13.5
130°-140°	984.6	14.5
140°-150°	924.1	13.6
150°-160°	747.5	11.0
160°-170°	483.4	7.1
170°-180°	166.7	2.4
0°-30°	441.7	6.5
0°-40°	701.5	10.3
0°-60°	1168.0	17.2
0°-90°	1415.6	20.8
90°-120°	1168.8	17.2
90°-150°	3992.8	58.7
90°-180°	5390.0	79.2
0°-180°	6806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	597	595	590	595	594	57
15°	568	565	556	555	551	160
25°	515	508	492	486	481	237
35°	444	433	412	399	393	278
45°	363	350	325	307	300	280
55°	276	261	236	216	208	246
65°	187	171	147	129	122	185
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	1	12	21	27	31	5
95°	74	70	21	27	27	91
105°	382	388	388	388	386	405
115°	718	725	726	721	713	712
125°	1021	1030	1030	1025	1021	912
135°	1274	1281	1279	1276	1268	982
145°	1476	1479	1479	1480	1472	923
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°	598.1	598.1	598.1	598.1	598.1
2.5°	599.4	598.1	593.5	598.1	597.6
5°	597.2	595.3	590.4	594.9	594.0
7.5°	592.6	590.8	585.0	588.6	587.7
10°	585.9	584.5	578.2	579.5	578.2
12.5°	578.2	576.4	567.3	568.2	566.0
15°	567.8	565.1	555.6	555.1	551.1
17.5°	557.0	552.9	541.6	539.3	536.2
20°	543.9	539.3	524.9	522.6	518.6
22.5°	529.4	524.9	509.5	504.6	501.4
25°	514.9	508.2	491.5	485.6	480.6
27.5°	498.7	490.6	472.9	465.3	460.3
30°	480.6	472.0	453.1	442.7	438.6
32.5°	463.0	452.6	433.2	421.4	416.0
35°	443.6	432.7	412.4	399.3	393.0
37.5°	425.1	412.0	391.2	375.8	369.5
40°	405.2	391.6	369.9	352.8	347.4
42.5°	384.4	370.4	347.8	331.6	323.0
45°	363.2	350.1	325.2	307.2	300.4
47.5°	341.0	327.5	302.6	284.1	276.4
50°	320.3	305.4	279.6	260.6	253.9
52.5°	297.7	282.3	258.4	237.6	230.8
55°	275.5	261.1	235.8	215.5	208.2
57.5°	253.0	237.6	213.2	193.3	187.0
60°	231.3	215.5	191.1	171.2	164.4
62.5°	208.2	193.3	168.5	150.4	143.6
65°	186.6	171.2	147.3	129.2	122.4
67.5°	164.9	149.5	126.5	109.3	103.9
70°	142.7	127.4	104.8	90.8	85.4
72.5°	121.1	106.2	85.4	72.7	69.6
75°	99.4	85.8	66.9	56.9	53.8
77.5°	77.2	66.4	50.6	42.9	40.2
80°	58.7	47.9	35.2	31.2	30.3
82.5°	40.7	31.2	23.5	22.1	21.7
85°	24.8	16.7	14.5	14.0	13.6
87.5°	10.4	7.2	6.8	6.8	6.3
90°	1.3	11.7	20.8	27.3	31.2
92.5°	24.7	13.0	20.8	27.3	28.6
95°	74.1	70.2	20.8	27.3	27.3
97.5°	139.2	147.0	23.4	26.0	27.3
100°	217.2	221.1	226.3	32.5	27.3
102.5°	296.6	301.8	304.4	307.0	197.7
105°	382.4	387.6	387.6	387.6	386.3
107.5°	470.9	470.9	473.5	474.8	469.6
110°	556.8	556.8	559.4	555.5	556.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	637.4	641.3	642.6	637.4	634.8
115°	718.1	724.6	725.9	720.7	712.8
117.5°	802.6	802.6	807.8	800.0	797.4
120°	880.7	879.4	883.3	880.7	874.2
122.5°	949.6	956.1	957.4	954.8	947.0
125°	1021.1	1030.3	1030.3	1025.0	1021.1
127.5°	1090.1	1096.6	1095.3	1092.7	1082.3
130°	1152.5	1159.0	1160.3	1156.4	1149.9
132.5°	1215.0	1222.8	1218.9	1218.9	1212.4
135°	1273.5	1281.3	1278.7	1276.1	1268.3
137.5°	1328.1	1335.9	1333.3	1333.3	1326.8
140°	1381.5	1384.1	1382.8	1385.4	1377.6
142.5°	1429.6	1430.9	1433.5	1433.5	1425.7
145°	1476.4	1479.0	1479.0	1480.3	1472.5
147.5°	1518.1	1518.1	1519.4	1520.7	1511.6
150°	1557.1	1554.5	1557.1	1559.7	1549.3
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)