

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: P1035906

Luminaire Tested: S125RDIW-B375D1340UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035906
REPORT IS A COMBINATION OF REPORTS P1006444 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1340UB50-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

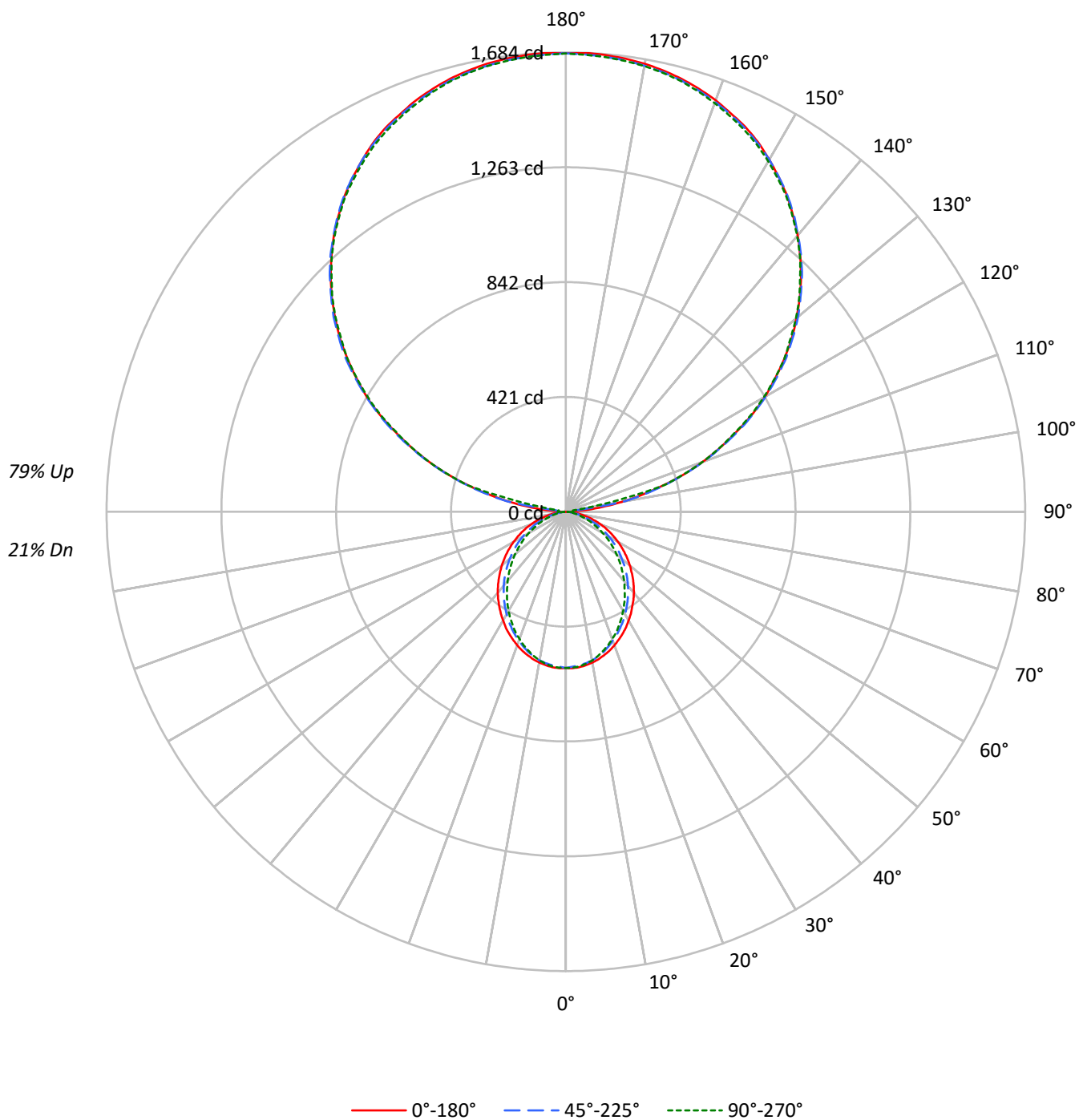
Lumens per Lamp: N/A
Luminaire Lumens: 6517.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	3669	3669	3669
5°	3670	3578	3584
10°	3634	3487	3457
15°	3582	3361	3290
20°	3519	3210	3115
25°	3446	3061	2928
30°	3356	2898	2732
35°	3265	2733	2523
40°	3179	2562	2319
45°	3075	2379	2105
50°	2969	2184	1888
55°	2845	1993	1662
60°	2721	1774	1428
65°	2570	1528	1176
70°	2396	1243	925
75°	2156	935	675
80°	1816	605	455
85°	1361	324	257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.8
10°-20°	150.6	2.3
20°-30°	218.4	3.4
30°-40°	248.8	3.8
40°-50°	242.5	3.7
50°-60°	204.1	3.1
60°-70°	143.0	2.2
70°-80°	73.3	1.1
80°-90°	20.8	0.3
90°-100°	57.0	0.9
100°-110°	379.2	5.8
110°-120°	682.9	10.5
120°-130°	876.6	13.5
130°-140°	942.8	14.5
140°-150°	884.8	13.6
150°-160°	715.7	11.0
160°-170°	462.9	7.1
170°-180°	159.6	2.4
0°-30°	422.9	6.5
0°-40°	671.7	10.3
0°-60°	1118.4	17.2
0°-90°	1355.5	20.8
90°-120°	1119.2	17.2
90°-150°	3823.3	58.7
90°-180°	5162.0	79.2
0°-180°	6517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	570	565	570	569	54
15°	544	541	532	532	528	153
25°	493	487	471	465	460	227
35°	425	414	395	382	376	266
45°	348	335	311	294	288	268
55°	264	250	226	206	199	236
65°	179	164	141	124	117	177
75°	95	82	64	54	52	101
85°	24	16	14	13	13	26
90°	1	11	20	26	30	5
95°	71	67	20	26	26	87
105°	366	371	371	371	370	388
115°	688	694	695	690	683	682
125°	978	986	986	982	978	873
135°	1219	1227	1224	1222	1214	940
145°	1414	1416	1416	1418	1410	884
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.7	572.7	572.7	572.7	572.7
2.5°	574.0	572.7	568.3	572.7	572.2
5°	571.8	570.1	565.3	569.6	568.8
7.5°	567.5	565.7	560.1	563.6	562.7
10°	561.0	559.7	553.6	554.9	553.6
12.5°	553.6	551.9	543.3	544.1	542.0
15°	543.7	541.1	532.0	531.6	527.7
17.5°	533.3	529.4	518.6	516.4	513.4
20°	520.8	516.4	502.6	500.4	496.5
22.5°	506.9	502.6	487.9	483.1	480.1
25°	493.1	486.6	470.6	465.0	460.2
27.5°	477.5	469.7	452.9	445.5	440.7
30°	460.2	452.0	433.8	423.9	420.0
32.5°	443.3	433.4	414.8	403.5	398.4
35°	424.7	414.4	394.9	382.4	376.3
37.5°	407.0	394.5	374.6	359.9	353.8
40°	388.0	375.0	354.2	337.8	332.6
42.5°	368.1	354.7	333.0	317.5	309.3
45°	347.8	335.2	311.4	294.1	287.6
47.5°	326.6	313.6	289.8	272.1	264.7
50°	306.7	292.4	267.7	249.6	243.1
52.5°	285.0	270.3	247.4	227.5	221.0
55°	263.8	250.0	225.8	206.3	199.4
57.5°	242.2	227.5	204.2	185.1	179.1
60°	221.5	206.3	183.0	163.9	157.4
62.5°	199.4	185.1	161.3	144.0	137.5
65°	178.6	163.9	141.0	123.7	117.2
67.5°	157.9	143.2	121.1	104.7	99.5
70°	136.7	122.0	100.3	86.9	81.7
72.5°	115.9	101.6	81.7	69.6	66.6
75°	95.2	82.2	64.0	54.5	51.5
77.5°	74.0	63.6	48.4	41.1	38.5
80°	56.2	45.8	33.7	29.8	29.0
82.5°	38.9	29.8	22.5	21.2	20.8
85°	23.8	16.0	13.8	13.4	13.0
87.5°	9.9	6.9	6.5	6.5	6.1
90°	1.2	11.2	19.9	26.2	29.9
92.5°	23.7	12.5	19.9	26.2	27.4
95°	71.0	67.3	19.9	26.2	26.2
97.5°	133.3	140.8	22.4	24.9	26.2
100°	208.0	211.7	216.7	31.1	26.2
102.5°	284.0	289.0	291.5	294.0	189.3
105°	366.2	371.2	371.2	371.2	369.9
107.5°	450.9	450.9	453.4	454.6	449.7
110°	533.1	533.1	535.6	531.9	533.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	610.3	614.1	615.3	610.3	607.8
115°	687.6	693.8	695.0	690.1	682.6
117.5°	768.5	768.5	773.5	766.0	763.5
120°	843.3	842.0	845.8	843.3	837.0
122.5°	909.3	915.5	916.8	914.3	906.8
125°	977.8	986.5	986.5	981.5	977.8
127.5°	1043.8	1050.0	1048.8	1046.3	1036.3
130°	1103.6	1109.8	1111.1	1107.3	1101.1
132.5°	1163.4	1170.8	1167.1	1167.1	1160.9
135°	1219.4	1226.9	1224.4	1221.9	1214.4
137.5°	1271.7	1279.2	1276.7	1276.7	1270.5
140°	1322.8	1325.3	1324.1	1326.5	1319.1
142.5°	1368.9	1370.1	1372.6	1372.6	1365.2
145°	1413.7	1416.2	1416.2	1417.5	1410.0
147.5°	1453.6	1453.6	1454.8	1456.1	1447.4
150°	1491.0	1488.5	1491.0	1493.5	1483.5
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)