

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: P1035876

Luminaire Tested: S125RDIW-B375D1050UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035876
REPORT IS A COMBINATION OF REPORTS P1006382 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1050UB30-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

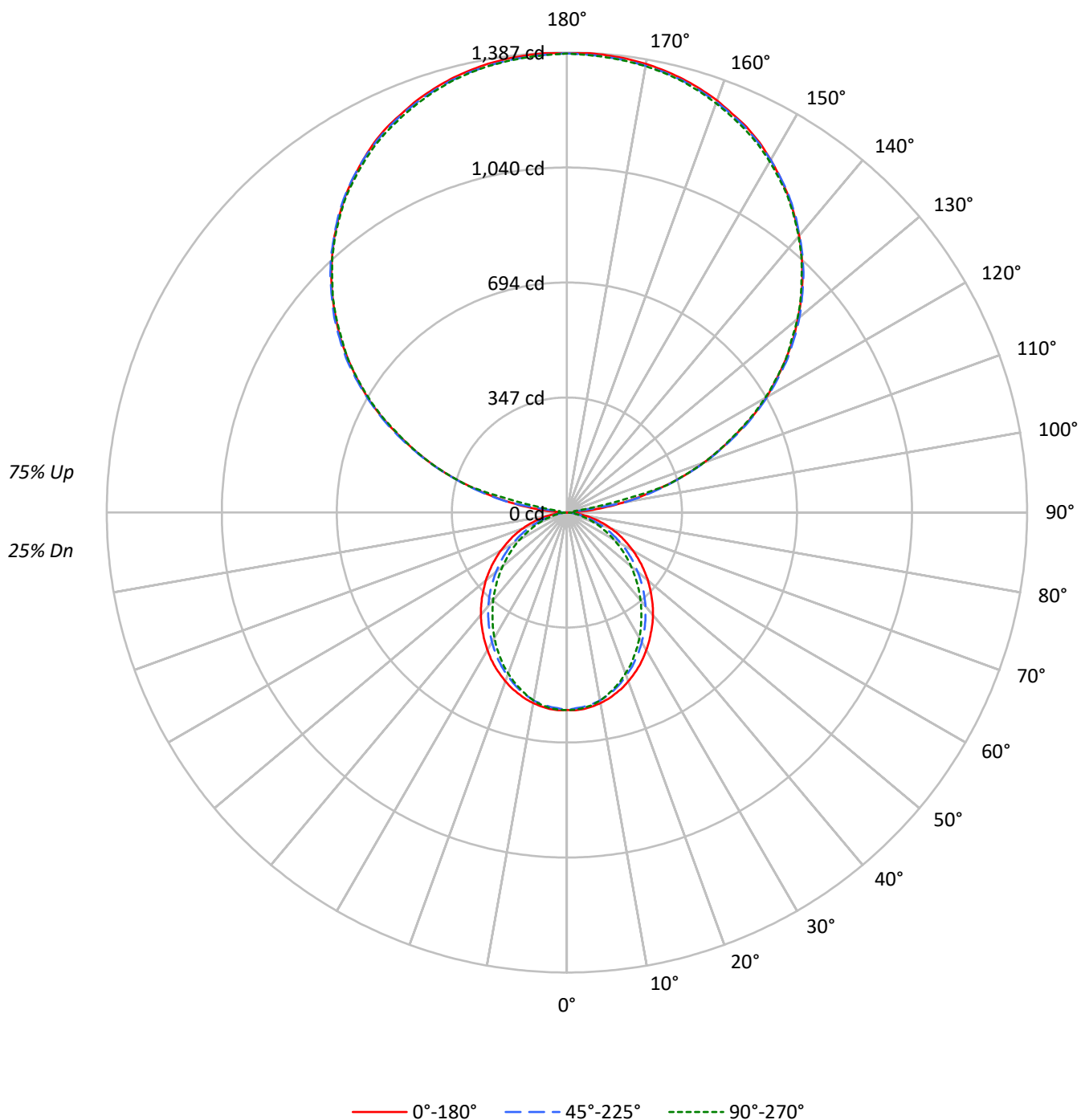
Lumens per Lamp: N/A
Luminaire Lumens: 5660.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	79	76	73	61	59	57	44	43	42	29	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	20
4	70	60	52	47	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	45	40	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	48	40	34	52	43	36	31	34	29	25	25	22	19	17	15	13
7	55	43	35	30	48	39	32	27	30	26	22	23	19	17	15	13	12
8	50	39	31	26	45	35	28	24	28	23	20	21	17	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	13	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3816	3721	3727
10°	3779	3627	3595
15°	3725	3495	3421
20°	3659	3338	3240
25°	3583	3184	3045
30°	3490	3014	2840
35°	3395	2842	2623
40°	3305	2665	2411
45°	3197	2474	2189
50°	3087	2271	1963
55°	2959	2072	1729
60°	2829	1844	1485
65°	2673	1589	1223
70°	2491	1294	963
75°	2242	973	701
80°	1890	630	473
85°	1412	339	267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	1.0
10°-20°	156.6	2.8
20°-30°	227.1	4.0
30°-40°	258.7	4.6
40°-50°	252.2	4.5
50°-60°	212.2	3.7
60°-70°	148.7	2.6
70°-80°	76.3	1.3
80°-90°	21.1	0.4
90°-100°	47.0	0.8
100°-110°	312.3	5.5
110°-120°	562.4	9.9
120°-130°	721.9	12.8
130°-140°	776.4	13.7
140°-150°	728.7	12.9
150°-160°	589.5	10.4
160°-170°	381.2	6.7
170°-180°	131.5	2.3
0°-30°	439.8	7.8
0°-40°	698.5	12.3
0°-60°	1163.0	20.5
0°-90°	1409.0	24.9
90°-120°	921.7	16.3
90°-150°	3148.8	55.6
90°-180°	4251.0	75.1
0°-180°	5660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	593	588	592	592	56
15°	565	563	553	553	549	159
25°	513	506	489	484	479	236
35°	442	431	411	398	391	277
45°	362	349	324	306	299	279
55°	274	260	235	214	207	245
65°	186	170	147	129	122	184
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	1	9	16	22	25	4
95°	58	55	16	22	22	72
105°	302	306	306	306	305	320
115°	566	571	572	568	562	561
125°	805	812	812	808	805	719
135°	1004	1010	1008	1006	1000	774
145°	1164	1166	1166	1167	1161	728
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.5	595.5	595.5	595.5	595.5
2.5°	596.9	595.5	591.0	595.5	595.1
5°	594.6	592.8	587.9	592.4	591.5
7.5°	590.1	588.3	582.5	586.1	585.2
10°	583.4	582.0	575.7	577.1	575.7
12.5°	575.7	573.9	564.9	565.8	563.6
15°	565.4	562.7	553.2	552.8	548.7
17.5°	554.6	550.5	539.3	537.0	533.9
20°	541.5	537.0	522.7	520.4	516.4
22.5°	527.2	522.7	507.4	502.4	499.3
25°	512.8	506.0	489.4	483.5	478.6
27.5°	496.6	488.5	470.9	463.3	458.3
30°	478.6	470.0	451.1	440.8	436.7
32.5°	461.0	450.7	431.3	419.7	414.3
35°	441.7	430.9	410.7	397.6	391.3
37.5°	423.3	410.2	389.5	374.2	367.9
40°	403.5	390.0	368.4	351.3	345.9
42.5°	382.8	368.8	346.3	330.1	321.6
45°	361.6	348.6	323.8	305.9	299.1
47.5°	339.6	326.1	301.4	282.9	275.3
50°	318.9	304.1	278.4	259.5	252.8
52.5°	296.4	281.1	257.3	236.6	229.8
55°	274.4	260.0	234.8	214.5	207.4
57.5°	251.9	236.6	212.3	192.5	186.2
60°	230.3	214.5	190.3	170.5	163.7
62.5°	207.4	192.5	167.8	149.8	143.0
65°	185.8	170.5	146.6	128.6	121.9
67.5°	164.2	148.9	125.9	108.8	103.5
70°	142.1	126.8	104.4	90.4	85.0
72.5°	120.5	105.7	85.0	72.4	69.3
75°	99.0	85.5	66.6	56.7	53.5
77.5°	76.9	66.1	50.4	42.7	40.0
80°	58.5	47.7	35.1	31.0	30.1
82.5°	40.5	31.0	23.4	22.0	21.6
85°	24.7	16.6	14.4	13.9	13.5
87.5°	10.3	7.2	6.7	6.7	6.3
90°	1.0	9.2	16.4	21.5	24.6
92.5°	19.5	10.3	16.4	21.5	22.6
95°	58.5	55.4	16.4	21.5	21.5
97.5°	109.8	115.9	18.5	20.5	21.5
100°	171.3	174.4	178.5	25.6	21.5
102.5°	233.9	238.0	240.0	242.1	155.9
105°	301.6	305.7	305.7	305.7	304.7
107.5°	371.4	371.4	373.4	374.4	370.3
110°	439.1	439.1	441.1	438.0	439.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.7	505.7	506.8	502.7	500.6
115°	566.3	571.4	572.4	568.3	562.2
117.5°	632.9	632.9	637.1	630.9	628.8
120°	694.5	693.5	696.5	694.5	689.4
122.5°	748.9	754.0	755.0	753.0	746.8
125°	805.3	812.5	812.5	808.4	805.3
127.5°	859.7	864.8	863.8	861.7	853.5
130°	908.9	914.0	915.1	912.0	906.8
132.5°	958.1	964.3	961.2	961.2	956.1
135°	1004.3	1010.5	1008.4	1006.4	1000.2
137.5°	1047.4	1053.5	1051.5	1051.5	1046.4
140°	1089.4	1091.5	1090.5	1092.5	1086.4
142.5°	1127.4	1128.4	1130.5	1130.5	1124.3
145°	1164.3	1166.4	1166.4	1167.4	1161.3
147.5°	1197.2	1197.2	1198.2	1199.2	1192.0
150°	1227.9	1225.9	1227.9	1230.0	1221.8
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)