

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: P1035877

Luminaire Tested: S125RDIW-B375D1050UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035877
REPORT IS A COMBINATION OF REPORTS P1006383 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-F1
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

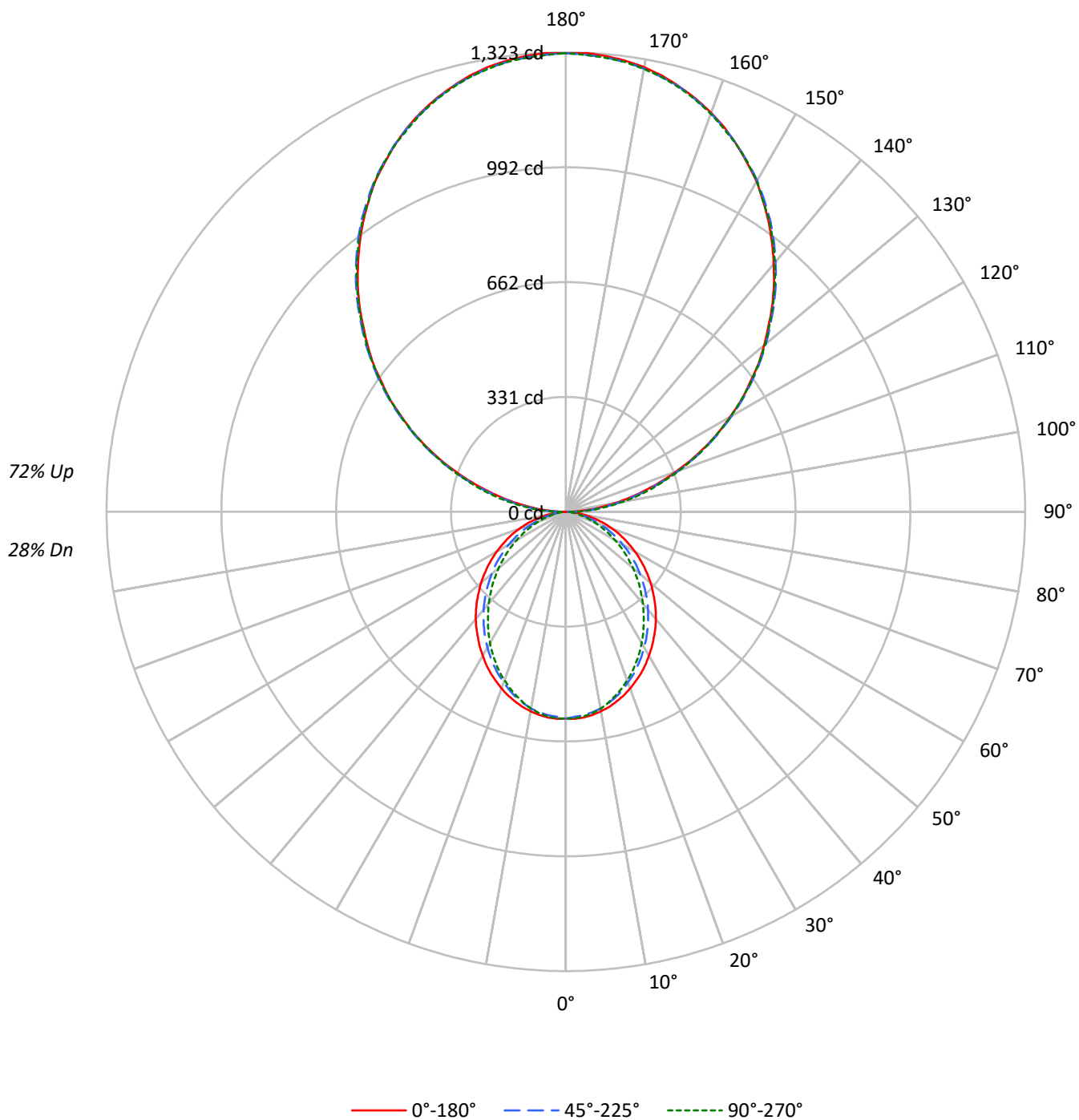
Lumens per Lamp: N/A
Luminaire Lumens: 5095.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	76	74	62	60	58	46	45	44	32	31	30
2	85	78	72	67	75	70	65	61	55	51	48	41	39	37	28	27	26
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17
6	60	48	40	35	53	43	37	32	34	30	26	26	23	20	18	16	15
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13
8	51	39	32	27	45	35	29	24	28	23	20	22	18	16	15	13	12
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10
10	44	33	26	21	39	29	23	19	24	19	16	18	15	13	13	11	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	1.1
10°-20°	156.6	3.1
20°-30°	227.1	4.5
30°-40°	258.7	5.1
40°-50°	252.2	5.0
50°-60°	212.2	4.2
60°-70°	148.7	2.9
70°-80°	76.3	1.5
80°-90°	21.1	0.4
90°-100°	87.8	1.7
100°-110°	260.9	5.1
110°-120°	442.5	8.7
120°-130°	582.5	11.4
130°-140°	652.7	12.8
140°-150°	639.8	12.6
150°-160°	537.4	10.5
160°-170°	357.2	7.0
170°-180°	125.0	2.5
0°-30°	439.8	8.6
0°-40°	698.5	13.7
0°-60°	1163.0	22.8
0°-90°	1409.0	27.7
90°-120°	791.2	15.5
90°-150°	2666.2	52.3
90°-180°	3686.0	72.3
0°-180°	5095.0	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	6
95°	67	69	79	86	88	70
105°	234	240	246	252	255	250
115°	443	447	449	448	447	438
125°	646	653	654	652	651	579
135°	841	847	848	848	844	648
145°	1018	1023	1026	1026	1023	637
155°	1166	1166	1166	1171	1166	537
165°	1267	1265	1266	1270	1264	358
175°	1318	1314	1314	1320	1312	125
180°	1321	1321	1321	1321	1321	

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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	21.6	24.7
92.5°	30.8	36.0	45.2	52.4	54.5
95°	66.8	68.9	79.1	86.3	88.4
97.5°	102.8	103.8	118.2	124.4	125.4
100°	143.9	143.9	157.2	166.5	168.6
102.5°	188.1	193.2	198.4	208.6	211.7
105°	234.3	239.5	245.6	251.8	254.9
107.5°	284.7	289.8	295.0	298.1	298.1
110°	337.1	342.2	345.3	348.4	347.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.6	392.6	396.7	397.7	395.7
115°	443.0	447.1	449.1	448.1	447.1
117.5°	496.4	497.4	499.5	500.5	496.4
120°	545.7	550.9	551.9	551.9	547.8
122.5°	599.2	600.2	603.3	602.3	599.2
125°	646.5	652.6	653.7	651.6	650.6
127.5°	698.9	702.0	703.0	702.0	699.9
130°	745.1	750.3	752.3	751.3	749.2
132.5°	791.4	800.6	799.6	798.6	795.5
135°	840.7	846.9	847.9	847.9	843.8
137.5°	887.0	893.1	895.2	896.2	891.1
140°	931.2	936.3	939.4	941.4	936.3
142.5°	975.4	979.5	983.6	984.6	979.5
145°	1018.5	1022.6	1025.7	1025.7	1022.6
147.5°	1058.6	1061.7	1063.7	1066.8	1058.6
150°	1098.7	1097.7	1101.8	1101.8	1099.7
152.5°	1131.6	1133.6	1134.7	1137.7	1133.6
155°	1165.5	1165.5	1166.5	1170.6	1165.5
157.5°	1196.3	1194.3	1195.3	1199.4	1192.2
160°	1223.1	1220.0	1221.0	1225.1	1220.0
162.5°	1246.7	1244.6	1244.6	1249.8	1243.6
165°	1267.2	1265.2	1266.2	1270.3	1264.2
167.5°	1285.7	1281.6	1281.6	1287.8	1281.6
170°	1300.1	1296.0	1296.0	1302.2	1295.0
172.5°	1310.4	1306.3	1306.3	1312.5	1306.3
175°	1317.6	1313.5	1313.5	1319.7	1312.5
177.5°	1322.7	1318.6	1317.6	1323.8	1316.6
180°	1320.7	1320.7	1320.7	1320.7	1320.7

(END OF REPORT)