

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: P1035930

Luminaire Tested: S125RDIW-B375D470UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035930
REPORT IS A COMBINATION OF REPORTS P1006494 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D470UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

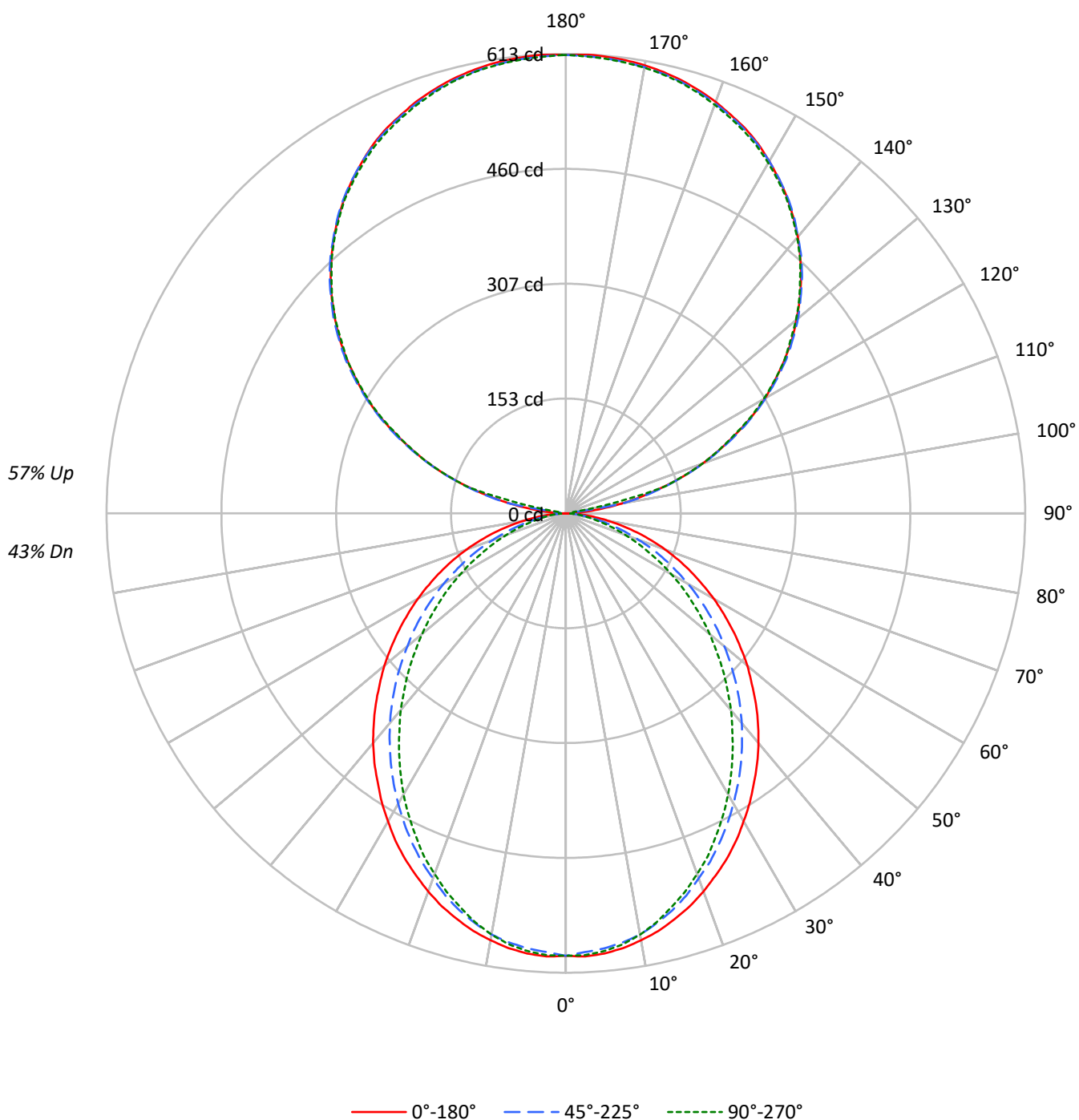
Lumens per Lamp: N/A
Luminaire Lumens: 3275.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	18	16
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3783	3783	3783
5°	3783	3689	3695
10°	3747	3596	3564
15°	3694	3466	3393
20°	3628	3309	3213
25°	3553	3156	3019
30°	3461	2988	2816
35°	3366	2818	2601
40°	3277	2642	2390
45°	3169	2453	2171
50°	3061	2252	1946
55°	2934	2055	1714
60°	2804	1828	1472
65°	2650	1576	1213
70°	2470	1283	955
75°	2221	964	696
80°	1874	625	469
85°	1401	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.7
10°-20°	155.3	4.7
20°-30°	225.2	6.9
30°-40°	256.5	7.8
40°-50°	250.0	7.6
50°-60°	210.4	6.4
60°-70°	147.5	4.5
70°-80°	75.6	2.3
80°-90°	19.8	0.6
90°-100°	20.8	0.6
100°-110°	138.1	4.2
110°-120°	248.6	7.6
120°-130°	319.1	9.7
130°-140°	343.2	10.5
140°-150°	322.1	9.8
150°-160°	260.6	8.0
160°-170°	168.5	5.1
170°-180°	58.1	1.8
0°-30°	436.0	13.3
0°-40°	692.6	21.1
0°-60°	1153.1	35.2
0°-90°	1395.9	42.6
90°-120°	407.4	12.4
90°-150°	1391.9	42.5
90°-180°	1879.0	57.4
0°-180°	3275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	588	583	587	586	56
15°	561	558	548	548	544	158
25°	508	502	485	479	474	234
35°	438	427	407	394	388	274
45°	358	346	321	303	297	277
55°	272	258	233	213	206	243
65°	184	169	145	128	121	182
75°	98	85	66	56	53	104
85°	24	16	14	14	13	27
90°	0	4	7	10	11	3
95°	26	24	7	10	10	32
105°	133	135	135	135	135	141
115°	250	253	253	251	248	248
125°	356	359	359	357	356	318
135°	444	447	446	445	442	342
145°	515	516	516	516	513	322
155°	567	564	565	566	563	261
165°	598	595	596	599	595	169
175°	612	609	610	613	609	58
180°	612	612	612	612	612	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	591.8	590.4	586.0	590.4	590.0
5°	589.5	587.8	582.9	587.3	586.4
7.5°	585.1	583.3	577.5	581.1	580.2
10°	578.4	577.1	570.8	572.2	570.8
12.5°	570.8	569.0	560.1	561.0	558.8
15°	560.6	557.9	548.5	548.1	544.1
17.5°	549.9	545.8	534.7	532.5	529.3
20°	536.9	532.5	518.2	516.0	512.0
22.5°	522.7	518.2	503.0	498.1	495.0
25°	508.4	501.7	485.2	479.4	474.5
27.5°	492.3	484.3	466.9	459.3	454.4
30°	474.5	466.0	447.3	437.0	433.0
32.5°	457.1	446.8	427.7	416.1	410.7
35°	437.9	427.2	407.2	394.2	388.0
37.5°	419.6	406.7	386.2	371.0	364.8
40°	400.0	386.6	365.2	348.3	342.9
42.5°	379.5	365.7	343.4	327.3	318.9
45°	358.5	345.6	321.1	303.2	296.6
47.5°	336.7	323.3	298.8	280.5	272.9
50°	316.2	301.5	276.0	257.3	250.6
52.5°	293.9	278.7	255.1	234.6	227.9
55°	272.0	257.8	232.8	212.7	205.6
57.5°	249.7	234.6	210.5	190.9	184.6
60°	228.3	212.7	188.6	169.0	162.3
62.5°	205.6	190.9	166.3	148.5	141.8
65°	184.2	169.0	145.4	127.5	120.9
67.5°	162.8	147.6	124.9	107.9	102.6
70°	140.9	125.8	103.5	89.6	84.3
72.5°	119.5	104.8	84.3	71.8	68.7
75°	98.1	84.7	66.0	56.2	53.1
77.5°	76.3	65.6	49.9	42.4	39.7
80°	58.0	47.3	34.8	30.8	29.9
82.5°	40.1	30.8	23.2	21.9	21.4
85°	24.5	16.5	14.3	13.8	13.4
87.5°	10.3	7.1	6.7	6.7	6.2
90°	0.5	4.1	7.3	9.5	10.9
92.5°	8.6	4.5	7.3	9.5	10.0
95°	25.8	24.5	7.3	9.5	9.5
97.5°	48.5	51.2	8.2	9.1	9.5
100°	75.7	77.1	78.9	11.3	9.5
102.5°	103.4	105.2	106.1	107.0	68.9
105°	133.3	135.1	135.1	135.1	134.7
107.5°	164.2	164.2	165.1	165.5	163.7
110°	194.1	194.1	195.0	193.6	194.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.2	223.6	224.0	222.2	221.3
115°	250.3	252.6	253.0	251.2	248.5
117.5°	279.8	279.8	281.6	278.9	278.0
120°	307.0	306.5	307.9	307.0	304.7
122.5°	331.0	333.3	333.8	332.8	330.1
125°	356.0	359.1	359.1	357.3	356.0
127.5°	380.0	382.3	381.8	380.9	377.3
130°	401.8	404.0	404.5	403.1	400.9
132.5°	423.5	426.3	424.9	424.9	422.6
135°	443.9	446.7	445.8	444.9	442.1
137.5°	463.0	465.7	464.8	464.8	462.5
140°	481.6	482.5	482.0	482.9	480.2
142.5°	498.4	498.8	499.7	499.7	497.0
145°	514.7	515.6	515.6	516.0	513.3
147.5°	529.2	529.2	529.6	530.1	526.9
150°	542.8	541.9	542.8	543.7	540.1
152.5°	555.9	553.7	554.6	555.5	552.3
155°	566.8	564.1	565.0	566.4	562.8
157.5°	575.4	574.1	574.1	575.4	571.8
160°	584.5	581.8	582.3	584.1	580.4
162.5°	591.8	589.1	589.5	592.2	588.1
165°	598.1	595.4	595.9	598.6	594.9
167.5°	603.1	600.4	600.8	604.0	599.9
170°	607.2	604.0	604.5	608.1	604.0
172.5°	609.9	606.7	607.6	610.8	606.7
175°	611.7	609.0	609.5	613.1	609.0
177.5°	613.1	610.4	610.8	614.0	610.4
180°	611.7	611.7	611.7	611.7	611.7

(END OF REPORT)