

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: P1035943

Luminaire Tested: S125RDIW-B375D470UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035943
REPORT IS A COMBINATION OF REPORTS P1006527 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D470UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

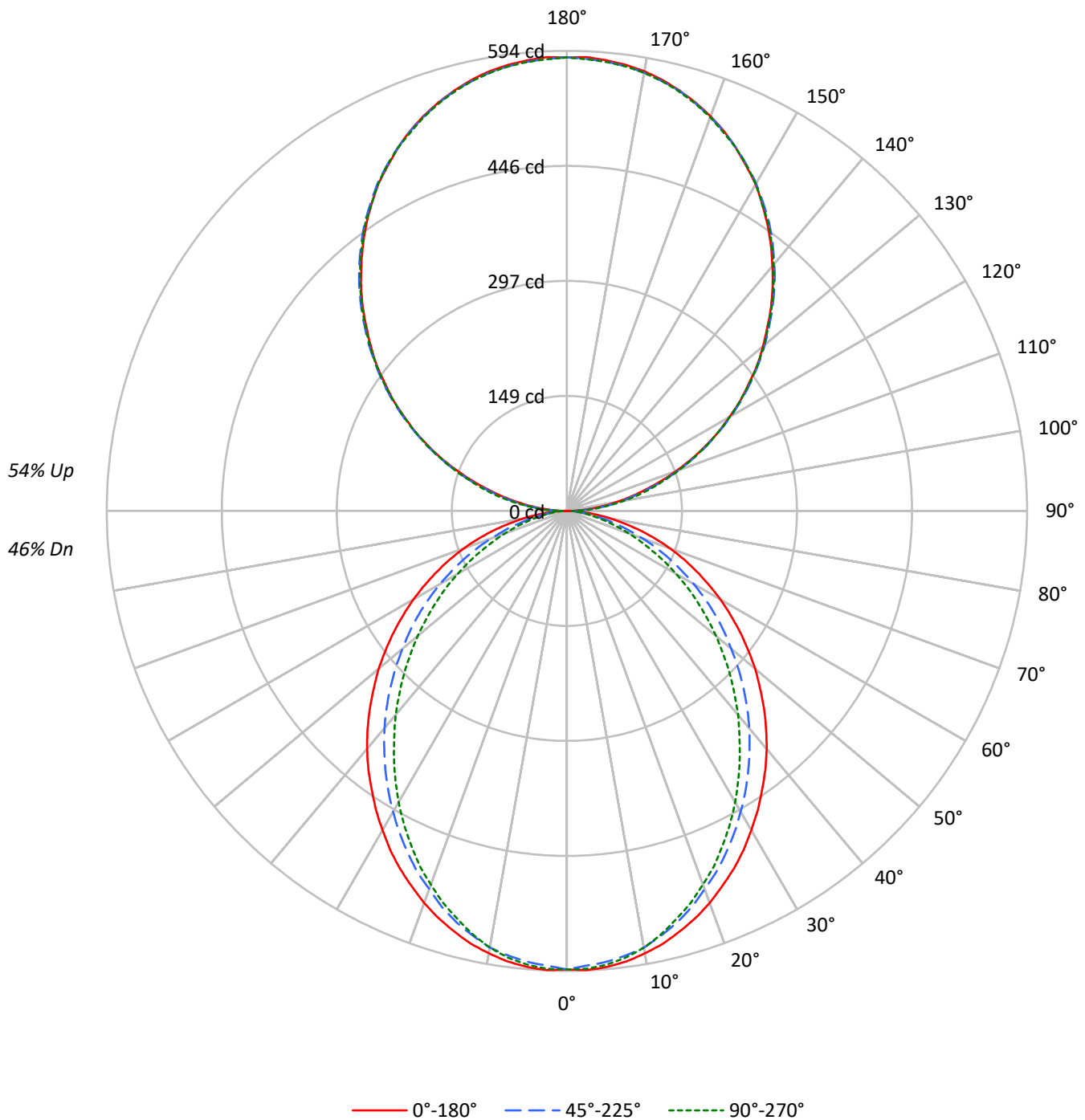
Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46		
1	97	93	89	86	89	85	82	79	71	69	67	59	57	56	47	46	45	39		
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38	33		
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	28		
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28	24		
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21		
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22	19		
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17		
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15		
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3794	3794	3794
5°	3794	3699	3705
10°	3758	3606	3575
15°	3704	3476	3402
20°	3639	3319	3221
25°	3562	3165	3028
30°	3471	2997	2825
35°	3376	2826	2609
40°	3287	2650	2397
45°	3179	2460	2177
50°	3069	2258	1951
55°	2942	2061	1719
60°	2813	1834	1477
65°	2658	1580	1216
70°	2477	1287	957
75°	2228	967	697
80°	1878	627	471
85°	1407	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.8
10°-20°	155.7	5.1
20°-30°	225.8	7.4
30°-40°	257.3	8.5
40°-50°	250.8	8.3
50°-60°	211.0	7.0
60°-70°	147.9	4.9
70°-80°	75.8	2.5
80°-90°	19.8	0.7
90°-100°	38.9	1.3
100°-110°	115.7	3.8
110°-120°	196.2	6.5
120°-130°	258.2	8.5
130°-140°	289.4	9.5
140°-150°	283.6	9.3
150°-160°	238.3	7.9
160°-170°	158.4	5.2
170°-180°	55.4	1.8
0°-30°	437.3	14.4
0°-40°	694.6	22.9
0°-60°	1156.4	38.1
0°-90°	1399.9	46.1
90°-120°	350.8	11.6
90°-150°	1182.0	39.0
90°-180°	1634.0	53.9
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	591	589	584	589	588	56
15°	562	560	550	550	546	159
25°	510	503	487	481	476	235
35°	439	428	408	395	389	275
45°	360	347	322	304	297	277
55°	273	258	234	213	206	244
65°	185	170	146	128	121	183
75°	98	85	66	56	53	104
85°	25	16	14	14	13	27
90°	0	4	7	10	11	3
95°	30	30	35	38	39	31
105°	104	106	109	112	113	111
115°	196	198	199	199	198	194
125°	287	289	290	289	288	257
135°	373	376	376	376	374	287
145°	452	453	455	455	453	282
155°	517	517	517	519	517	238
165°	562	561	561	563	560	159
175°	584	582	582	585	582	56
180°	586	586	586	586	586	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.1	592.1	592.1	592.1	592.1
2.5°	593.5	592.1	587.7	592.1	591.7
5°	591.2	589.4	584.5	589.0	588.1
7.5°	586.8	585.0	579.2	582.7	581.8
10°	580.1	578.7	572.5	573.8	572.5
12.5°	572.5	570.7	561.7	562.6	560.4
15°	562.2	559.5	550.1	549.6	545.6
17.5°	551.4	547.4	536.2	534.0	530.9
20°	538.5	534.0	519.7	517.4	513.4
22.5°	524.2	519.7	504.5	499.6	496.4
25°	509.8	503.1	486.6	480.8	475.9
27.5°	493.7	485.7	468.3	460.6	455.7
30°	475.9	467.4	448.6	438.3	434.3
32.5°	458.4	448.1	428.9	417.3	411.9
35°	439.2	428.4	408.3	395.4	389.1
37.5°	420.8	407.9	387.3	372.1	365.8
40°	401.2	387.7	366.3	349.3	343.9
42.5°	380.6	366.7	344.4	328.3	319.8
45°	359.6	346.6	322.0	304.1	297.4
47.5°	337.7	324.2	299.6	281.3	273.7
50°	317.1	302.3	276.8	258.1	251.3
52.5°	294.7	279.5	255.8	235.2	228.5
55°	272.8	258.5	233.5	213.3	206.2
57.5°	250.4	235.2	211.1	191.4	185.2
60°	229.0	213.3	189.2	169.5	162.8
62.5°	206.2	191.4	166.8	148.9	142.2
65°	184.7	169.5	145.8	127.9	121.2
67.5°	163.2	148.0	125.2	108.2	102.9
70°	141.3	126.1	103.8	89.9	84.5
72.5°	119.9	105.1	84.5	72.0	68.9
75°	98.4	85.0	66.2	56.4	53.2
77.5°	76.5	65.7	50.1	42.5	39.8
80°	58.1	47.4	34.9	30.9	30.0
82.5°	40.3	30.9	23.3	21.9	21.5
85°	24.6	16.5	14.3	13.9	13.4
87.5°	10.3	7.2	6.7	6.7	6.3
90°	0.5	4.1	7.3	9.6	10.9
92.5°	13.7	15.9	20.0	23.2	24.1
95°	29.6	30.5	35.1	38.3	39.2
97.5°	45.6	46.0	52.4	55.1	55.6
100°	63.8	63.8	69.7	73.8	74.7
102.5°	83.4	85.7	87.9	92.5	93.9
105°	103.9	106.2	108.9	111.6	113.0
107.5°	126.2	128.5	130.8	132.1	132.1
110°	149.5	151.7	153.1	154.5	154.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.1	174.1	175.9	176.3	175.4
115°	196.4	198.2	199.1	198.7	198.2
117.5°	220.1	220.5	221.4	221.9	220.1
120°	241.9	244.2	244.7	244.7	242.9
122.5°	265.6	266.1	267.5	267.0	265.6
125°	286.6	289.3	289.8	288.9	288.4
127.5°	309.8	311.2	311.7	311.2	310.3
130°	330.3	332.6	333.5	333.1	332.2
132.5°	350.8	354.9	354.5	354.0	352.7
135°	372.7	375.5	375.9	375.9	374.1
137.5°	393.2	396.0	396.9	397.3	395.0
140°	412.8	415.1	416.5	417.4	415.1
142.5°	432.4	434.2	436.1	436.5	434.2
145°	451.5	453.4	454.7	454.7	453.4
147.5°	469.3	470.7	471.6	473.0	469.3
150°	487.1	486.6	488.4	488.4	487.5
152.5°	501.7	502.6	503.0	504.4	502.6
155°	516.7	516.7	517.2	519.0	516.7
157.5°	530.4	529.5	529.9	531.7	528.5
160°	542.2	540.8	541.3	543.1	540.8
162.5°	552.7	551.8	551.8	554.1	551.3
165°	561.8	560.9	561.4	563.2	560.4
167.5°	570.0	568.2	568.2	570.9	568.2
170°	576.4	574.6	574.6	577.3	574.1
172.5°	580.9	579.1	579.1	581.9	579.1
175°	584.1	582.3	582.3	585.0	581.9
177.5°	586.4	584.6	584.1	586.9	583.7
180°	585.5	585.5	585.5	585.5	585.5

(END OF REPORT)