

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: P1035962

Luminaire Tested: S125RDIW-B375D770UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035962
REPORT IS A COMBINATION OF REPORTS P1006570 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D770UB40-4F0-XX-W2A-F
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

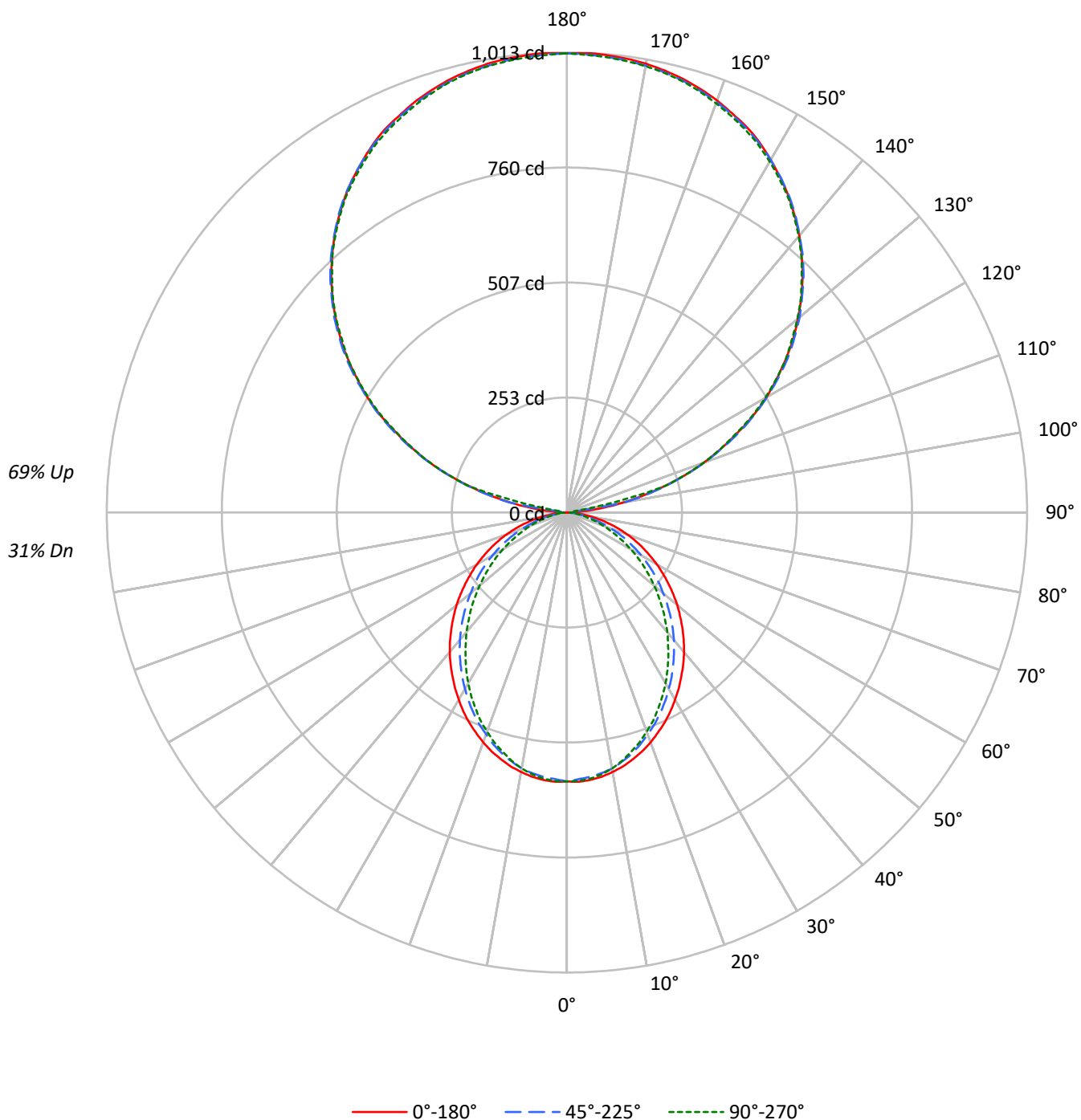
Lumens per Lamp: N/A
Luminaire Lumens: 4506.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	31
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	34	34	33	33	33	26
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	30	29	28	28	28	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	24	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	21	21	16
5	65	54	46	41	59	49	42	37	39	34	31	30	27	24	22	20	18	18	18	14
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	16	16	13
7	56	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	14	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	13	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11	11	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	10	10	8

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	1.2
10°-20°	155.7	3.5
20°-30°	225.8	5.0
30°-40°	257.3	5.7
40°-50°	250.8	5.6
50°-60°	211.0	4.7
60°-70°	147.9	3.3
70°-80°	75.8	1.7
80°-90°	20.4	0.5
90°-100°	34.3	0.8
100°-110°	228.2	5.1
110°-120°	410.9	9.1
120°-130°	527.4	11.7
130°-140°	567.2	12.6
140°-150°	532.4	11.8
150°-160°	430.6	9.6
160°-170°	278.5	6.2
170°-180°	96.0	2.1
0°-30°	437.3	9.7
0°-40°	694.6	15.4
0°-60°	1156.4	25.7
0°-90°	1400.5	31.1
90°-120°	673.4	14.9
90°-150°	2300.3	51.1
90°-180°	3106.0	68.9
0°-180°	4506.0	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°	1	7	12	16	18	4
95°	43	40	12	16	16	52
105°	220	223	223	223	223	233
115°	414	417	418	415	411	410
125°	588	594	594	590	588	526
135°	734	738	737	735	731	566
145°	851	852	852	853	848	532
155°	937	932	934	936	930	432
165°	988	984	985	989	983	279
175°	1011	1006	1007	1013	1006	96
180°	1011	1011	1011	1011	1011	

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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°	0.7	6.7	12.0	15.7	18.0
92.5°	14.2	7.5	12.0	15.7	16.5
95°	42.7	40.5	12.0	15.7	15.7
97.5°	80.2	84.7	13.5	15.0	15.7
100°	125.2	127.4	130.4	18.7	15.7
102.5°	170.9	173.9	175.4	176.9	113.9
105°	220.3	223.3	223.3	223.3	222.6
107.5°	271.3	271.3	272.8	273.5	270.5
110°	320.8	320.8	322.3	320.0	320.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.2	369.5	370.2	367.2	365.7
115°	413.7	417.4	418.2	415.2	410.7
117.5°	462.4	462.4	465.4	460.9	459.4
120°	507.4	506.6	508.9	507.4	503.6
122.5°	547.1	550.8	551.6	550.1	545.6
125°	588.3	593.5	593.5	590.5	588.3
127.5°	628.0	631.8	631.0	629.5	623.5
130°	664.0	667.7	668.5	666.2	662.5
132.5°	700.0	704.5	702.2	702.2	698.5
135°	733.7	738.2	736.7	735.2	730.7
137.5°	765.2	769.7	768.2	768.2	764.4
140°	795.9	797.4	796.6	798.1	793.6
142.5°	823.6	824.4	825.9	825.9	821.4
145°	850.6	852.1	852.1	852.8	848.3
147.5°	874.6	874.6	875.3	876.1	870.8
150°	897.1	895.6	897.1	898.6	892.6
152.5°	918.8	915.0	916.5	918.0	912.8
155°	936.8	932.3	933.8	936.0	930.0
157.5°	951.0	948.8	948.8	951.0	945.0
160°	966.0	961.5	962.3	965.3	959.3
162.5°	978.0	973.5	974.3	978.7	972.0
165°	988.5	984.0	984.7	989.2	983.2
167.5°	996.7	992.2	993.0	998.2	991.5
170°	1003.5	998.2	999.0	1005.0	998.2
172.5°	1008.0	1002.7	1004.2	1009.5	1002.7
175°	1011.0	1006.5	1007.2	1013.2	1006.5
177.5°	1013.2	1008.7	1009.5	1014.7	1008.7
180°	1011.0	1011.0	1011.0	1011.0	1011.0

(END OF REPORT)