

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: P1035341

Luminaire Tested: S125DIW-B375D470UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035341
REPORT IS A COMBINATION OF REPORTS P1003629 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D470UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

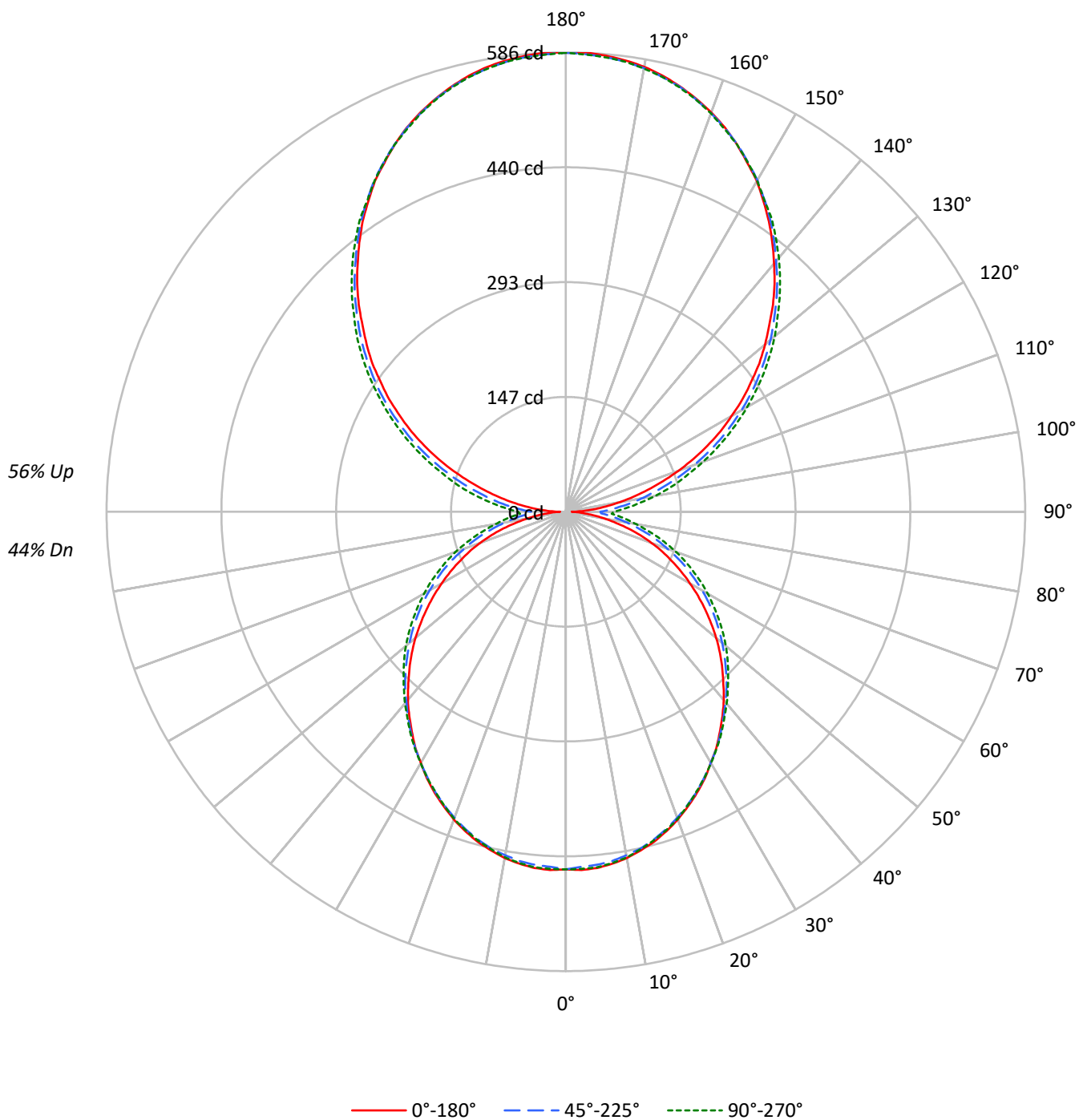
Lumens per Lamp: N/A
Luminaire Lumens: 3048.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	96	91	87	83	87	83	80	77	69	66	64	56	54	52	43	42	41
2	87	79	73	68	79	73	67	62	60	56	53	48	46	43	38	36	34
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	33	31	29
4	72	61	53	47	66	56	49	44	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	21
6	61	49	41	35	55	45	38	32	37	32	28	31	26	23	24	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	27	47	37	30	25	31	25	21	25	21	18	20	17	15
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	21	17	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.4
10°-20°	122.5	4.0
20°-30°	182.2	6.0
30°-40°	215.8	7.1
40°-50°	223.1	7.3
50°-60°	205.5	6.7
60°-70°	166.1	5.5
70°-80°	111.2	3.6
80°-90°	58.4	1.9
90°-100°	71.3	2.3
100°-110°	139.5	4.6
110°-120°	212.1	7.0
120°-130°	267.3	8.8
130°-140°	293.3	9.6
140°-150°	284.4	9.3
150°-160°	238.3	7.8
160°-170°	158.4	5.2
170°-180°	55.4	1.8
0°-30°	347.9	11.4
0°-40°	563.7	18.5
0°-60°	992.3	32.6
0°-90°	1328.0	43.6
90°-120°	422.9	13.9
90°-150°	1268.0	41.6
90°-180°	1720.0	56.4
0°-180°	3048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	26	44	57	61	7
95°	35	48	68	81	85	36
105°	108	117	134	145	150	115
115°	199	204	216	224	226	197
125°	288	291	300	306	308	258
135°	374	376	380	385	386	288
145°	452	453	455	457	457	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°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	7.7	25.6	44.0	56.6	61.0
92.5°	20.0	35.1	54.9	67.9	71.9
95°	35.4	47.9	67.7	80.8	84.8
97.5°	51.0	62.1	83.3	95.3	99.0
100°	68.7	78.1	98.3	111.8	115.4
102.5°	87.9	98.7	114.7	128.3	132.4
105°	107.9	117.4	133.5	145.1	149.7
107.5°	129.8	138.3	153.6	163.8	166.5
110°	152.6	160.2	174.1	184.0	186.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.2	181.3	195.1	203.6	205.8
115°	199.1	204.0	216.5	224.2	226.4
117.5°	222.3	225.0	237.1	245.2	246.5
120°	244.1	247.8	258.6	266.2	267.0
122.5°	267.4	268.3	279.6	286.2	287.5
125°	288.4	290.6	300.1	306.3	308.1
127.5°	311.1	312.1	320.2	326.4	328.2
130°	331.6	333.5	340.7	346.5	347.9
132.5°	351.7	355.8	359.9	365.6	366.1
135°	373.6	375.9	379.5	385.3	385.7
137.5°	394.1	396.4	399.1	404.9	404.4
140°	413.2	415.5	417.4	423.2	422.7
142.5°	432.8	434.2	436.1	440.5	440.0
145°	451.9	453.4	454.7	456.9	457.4
147.5°	469.3	470.7	471.6	473.9	471.1
150°	487.1	486.6	488.4	488.4	487.9
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)