

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: P1035329

Luminaire Tested: S125DIW-B375D470UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035329
REPORT IS A COMBINATION OF REPORTS P1003611 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D470UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

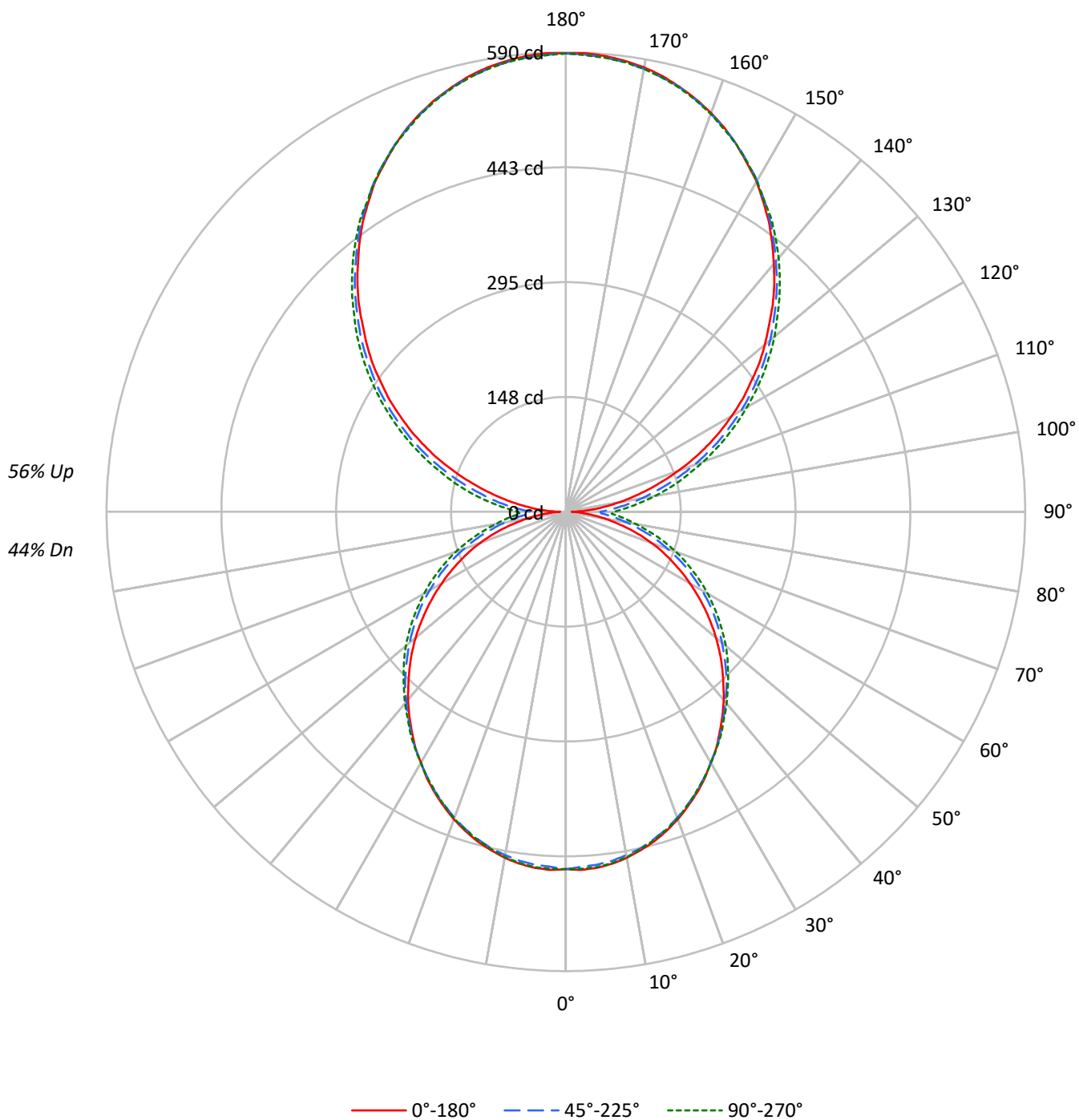
Lumens per Lamp: N/A
Luminaire Lumens: 3066.2 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
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	48	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°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.4
10°-20°	123.3	4.0
20°-30°	183.4	6.0
30°-40°	217.2	7.1
40°-50°	224.5	7.3
50°-60°	206.8	6.7
60°-70°	167.2	5.5
70°-80°	111.9	3.6
80°-90°	58.8	1.9
90°-100°	71.7	2.3
100°-110°	140.3	4.6
110°-120°	213.3	7.0
120°-130°	268.8	8.8
130°-140°	295.0	9.6
140°-150°	286.0	9.3
150°-160°	239.6	7.8
160°-170°	159.2	5.2
170°-180°	55.7	1.8
0°-30°	350.1	11.4
0°-40°	567.3	18.5
0°-60°	998.6	32.6
0°-90°	1336.4	43.6
90°-120°	425.4	13.9
90°-150°	1275.2	41.6
90°-180°	1730.0	56.4
0°-180°	3066.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	26	44	57	61	7
95°	36	48	68	81	85	36
105°	109	118	134	146	150	116
115°	200	205	218	226	228	198
125°	290	292	302	308	310	260
135°	376	378	382	388	388	290
145°	454	456	457	460	460	284
155°	520	520	520	522	520	239
165°	565	564	564	566	564	159
175°	587	586	586	588	585	56
180°	589	589	589	589	589	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	7.7	25.7	44.2	56.9	61.4
92.5°	20.0	35.4	55.3	68.4	72.5
95°	35.7	48.3	68.2	81.3	85.3
97.5°	51.2	62.5	83.8	95.9	99.6
100°	69.1	78.5	98.9	112.5	116.1
102.5°	88.3	99.2	115.4	129.0	133.1
105°	108.6	118.0	134.3	146.0	150.5
107.5°	130.5	139.1	154.5	164.9	167.6
110°	153.5	161.2	175.1	185.0	187.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.3	182.2	196.2	204.8	207.0
115°	200.2	205.2	217.8	225.5	227.7
117.5°	223.6	226.2	238.5	246.5	247.9
120°	245.6	249.2	260.0	267.6	268.5
122.5°	268.9	269.9	281.1	287.9	289.2
125°	290.0	292.3	301.8	308.1	309.8
127.5°	312.9	313.8	322.0	328.2	330.0
130°	333.6	335.4	342.6	348.4	349.8
132.5°	353.7	357.8	361.8	367.7	368.1
135°	375.7	378.0	381.6	387.5	387.8
137.5°	396.3	398.6	401.4	407.2	406.7
140°	415.6	417.9	419.7	425.6	425.1
142.5°	435.3	436.6	438.5	443.0	442.5
145°	454.5	455.9	457.2	459.5	460.0
147.5°	471.9	473.3	474.2	476.5	473.7
150°	489.8	489.3	491.1	491.1	490.7
152.5°	504.4	505.3	505.8	507.2	505.3
155°	519.5	519.5	520.0	521.8	519.5
157.5°	533.3	532.4	532.8	534.7	531.5
160°	545.2	543.8	544.3	546.1	543.8
162.5°	555.7	554.8	554.8	557.1	554.4
165°	564.9	564.0	564.4	566.3	563.5
167.5°	573.1	571.3	571.3	574.1	571.3
170°	579.6	577.7	577.7	580.5	577.3
172.5°	584.1	582.3	582.3	585.1	582.3
175°	587.4	585.5	585.5	588.3	585.1
177.5°	589.6	587.8	587.4	590.1	586.9
180°	588.7	588.7	588.7	588.7	588.7

(END OF REPORT)