

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: P1035347

Luminaire Tested: S125DIW-B375D470UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035347
REPORT IS A COMBINATION OF REPORTS P1003638 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D470UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

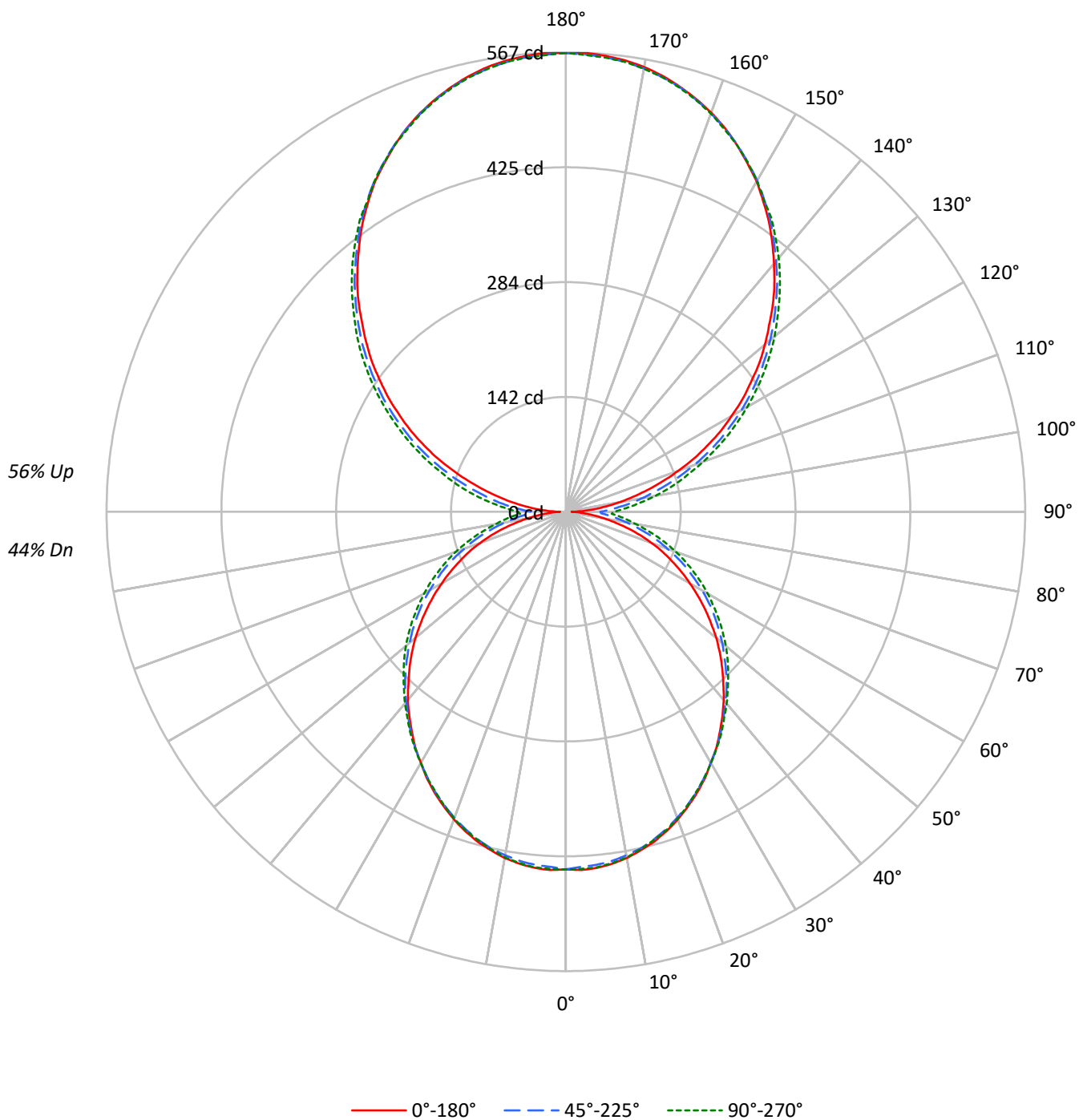
Lumens per Lamp: N/A
Luminaire Lumens: 2948.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.4
10°-20°	118.5	4.0
20°-30°	176.3	6.0
30°-40°	208.8	7.1
40°-50°	215.8	7.3
50°-60°	198.8	6.7
60°-70°	160.7	5.5
70°-80°	107.6	3.6
80°-90°	56.5	1.9
90°-100°	69.0	2.3
100°-110°	134.9	4.6
110°-120°	205.1	7.0
120°-130°	258.5	8.8
130°-140°	283.7	9.6
140°-150°	275.0	9.3
150°-160°	230.4	7.8
160°-170°	153.1	5.2
170°-180°	53.6	1.8
0°-30°	336.6	11.4
0°-40°	545.3	18.5
0°-60°	960.0	32.6
0°-90°	1284.7	43.6
90°-120°	409.0	13.9
90°-150°	1226.2	41.6
90°-180°	1663.0	56.4
0°-180°	2948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	7	25	42	55	59	7
95°	34	46	66	78	82	34
105°	104	114	129	140	145	111
115°	192	197	209	217	219	190
125°	279	281	290	296	298	250
135°	361	364	367	373	373	278
145°	437	438	440	442	442	273
155°	500	500	500	502	500	230
165°	543	542	543	545	542	153
175°	565	563	563	566	563	54
180°	566	566	566	566	566	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.3	24.8	42.5	54.7	59.1
92.5°	19.3	34.0	53.1	65.8	69.7
95°	34.2	46.4	65.5	78.1	82.0
97.5°	49.3	60.1	80.6	92.2	95.8
100°	66.5	75.5	95.1	108.2	111.7
102.5°	84.9	95.3	111.0	124.0	128.0
105°	104.4	113.5	129.1	140.3	144.8
107.5°	125.5	133.7	148.6	158.5	161.1
110°	147.5	154.9	168.3	178.0	180.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.4	175.2	188.7	196.9	199.0
115°	192.5	197.3	209.4	216.8	219.0
117.5°	215.0	217.5	229.2	237.1	238.3
120°	236.2	239.7	250.0	257.4	258.2
122.5°	258.6	259.5	270.3	276.8	278.1
125°	278.8	281.1	290.2	296.2	297.9
127.5°	300.9	301.8	309.6	315.6	317.3
130°	320.7	322.5	329.4	335.1	336.3
132.5°	340.2	344.1	348.0	353.5	354.0
135°	361.3	363.5	367.0	372.6	372.9
137.5°	381.1	383.3	386.0	391.6	391.1
140°	399.6	401.8	403.6	409.2	408.8
142.5°	418.5	419.9	421.6	426.0	425.5
145°	437.0	438.4	439.7	441.9	442.3
147.5°	453.8	455.1	456.0	458.2	455.5
150°	471.0	470.6	472.3	472.3	471.8
152.5°	485.1	486.0	486.4	487.7	486.0
155°	499.6	499.6	500.1	501.8	499.6
157.5°	512.9	512.0	512.4	514.2	511.1
160°	524.3	523.0	523.4	525.2	523.0
162.5°	534.4	533.6	533.6	535.8	533.1
165°	543.3	542.4	542.8	544.6	541.9
167.5°	551.2	549.4	549.4	552.1	549.4
170°	557.4	555.6	555.6	558.2	555.1
172.5°	561.8	560.0	560.0	562.6	560.0
175°	564.8	563.1	563.1	565.7	562.6
177.5°	567.0	565.3	564.8	567.5	564.4
180°	566.2	566.2	566.2	566.2	566.2

(END OF REPORT)