

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: P1035335

Luminaire Tested: S125DIW-B375D470UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035335
REPORT IS A COMBINATION OF REPORTS P1003620 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D470UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

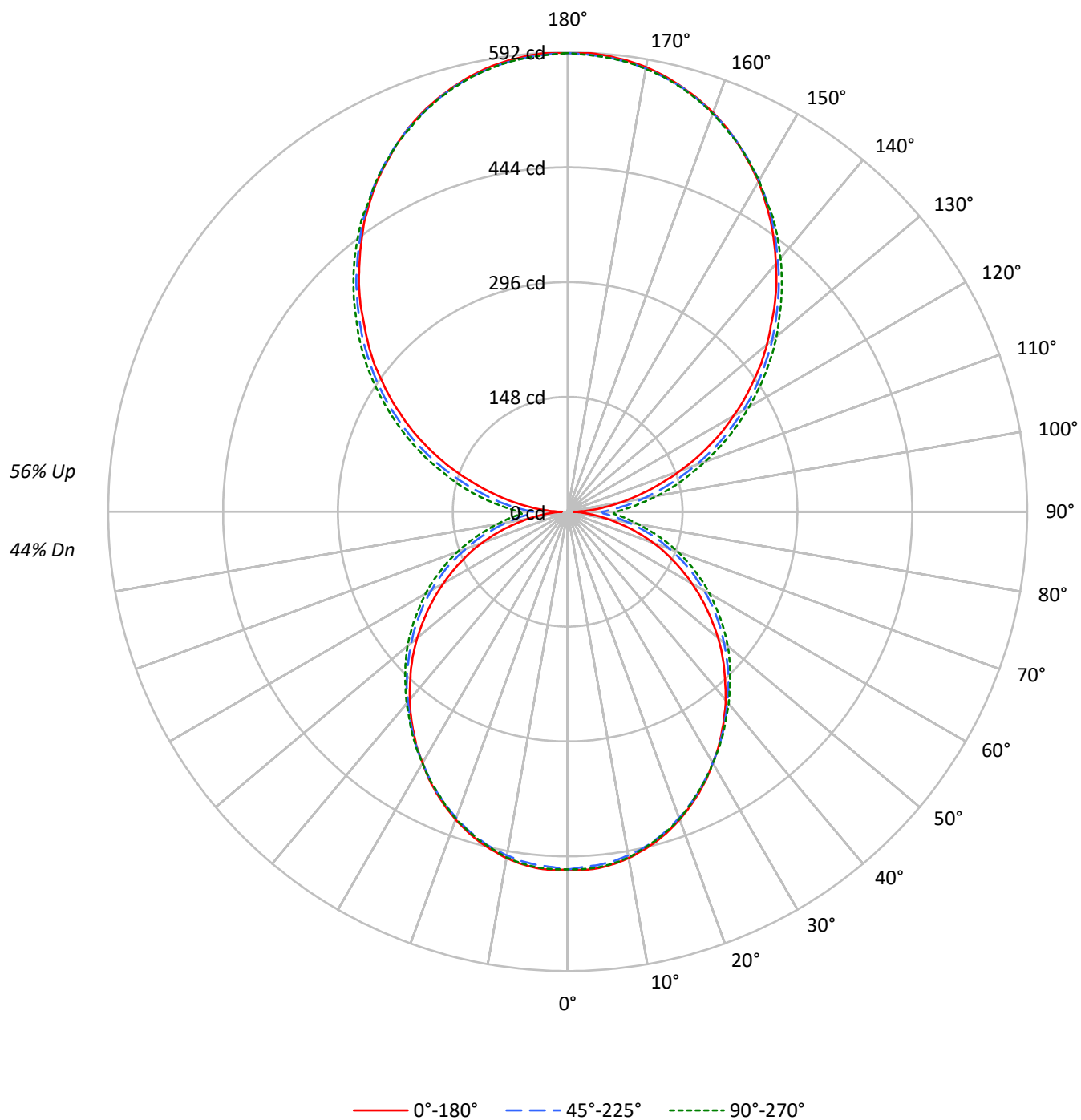
Lumens per Lamp: N/A
Luminaire Lumens: 3079.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.4
10°-20°	123.8	4.0
20°-30°	184.1	6.0
30°-40°	218.1	7.1
40°-50°	225.5	7.3
50°-60°	207.7	6.7
60°-70°	167.9	5.5
70°-80°	112.3	3.6
80°-90°	59.0	1.9
90°-100°	72.0	2.3
100°-110°	140.9	4.6
110°-120°	214.2	7.0
120°-130°	269.9	8.8
130°-140°	296.2	9.6
140°-150°	287.2	9.3
150°-160°	240.6	7.8
160°-170°	159.9	5.2
170°-180°	56.0	1.8
0°-30°	351.6	11.4
0°-40°	569.7	18.5
0°-60°	1002.8	32.6
0°-90°	1342.0	43.6
90°-120°	427.1	13.9
90°-150°	1280.5	41.6
90°-180°	1737.0	56.4
0°-180°	3079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	26	44	57	62	7
95°	36	48	68	82	86	36
105°	109	118	135	147	151	116
115°	201	206	219	226	229	199
125°	291	294	303	309	311	261
135°	377	380	383	389	390	291
145°	456	458	459	462	462	285
155°	522	522	522	524	522	240
165°	567	566	567	569	566	160
175°	590	588	588	591	588	56
180°	591	591	591	591	591	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	7.7	25.8	44.5	57.2	61.6
92.5°	20.1	35.5	55.5	68.7	72.8
95°	35.8	48.4	68.4	81.5	85.7
97.5°	51.4	62.8	84.1	96.4	99.9
100°	69.4	78.9	99.3	112.9	116.6
102.5°	88.7	99.6	115.9	129.6	133.7
105°	109.0	118.5	134.9	146.6	151.2
107.5°	131.0	139.6	155.0	165.5	168.2
110°	154.1	161.8	175.8	185.8	188.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.0	183.0	197.0	205.7	207.8
115°	201.0	206.0	218.7	226.4	228.6
117.5°	224.5	227.2	239.4	247.6	248.9
120°	246.6	250.2	261.1	268.8	269.6
122.5°	270.0	271.0	282.3	289.0	290.3
125°	291.2	293.6	303.0	309.3	311.1
127.5°	314.3	315.1	323.3	329.6	331.4
130°	335.0	336.8	344.0	349.9	351.2
132.5°	355.2	359.3	363.4	369.3	369.7
135°	377.3	379.6	383.2	389.1	389.5
137.5°	398.0	400.3	403.0	408.9	408.4
140°	417.4	419.7	421.4	427.4	426.9
142.5°	437.1	438.5	440.3	444.9	444.4
145°	456.5	457.8	459.2	461.5	461.9
147.5°	473.9	475.3	476.2	478.5	475.7
150°	491.8	491.4	493.2	493.2	492.8
152.5°	506.6	507.5	508.0	509.3	507.5
155°	521.8	521.8	522.2	524.1	521.8
157.5°	535.6	534.6	535.1	536.9	533.7
160°	547.5	546.1	546.6	548.4	546.1
162.5°	558.1	557.2	557.2	559.5	556.7
165°	567.3	566.4	566.8	568.7	565.9
167.5°	575.6	573.7	573.7	576.5	573.7
170°	582.0	580.2	580.2	582.9	579.7
172.5°	586.6	584.8	584.8	587.6	584.8
175°	589.9	588.0	588.0	590.8	587.6
177.5°	592.2	590.3	589.9	592.6	589.4
180°	591.2	591.2	591.2	591.2	591.2

(END OF REPORT)