

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: P1035342

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035342
REPORT IS A COMBINATION OF REPORTS P1003631 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-F
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

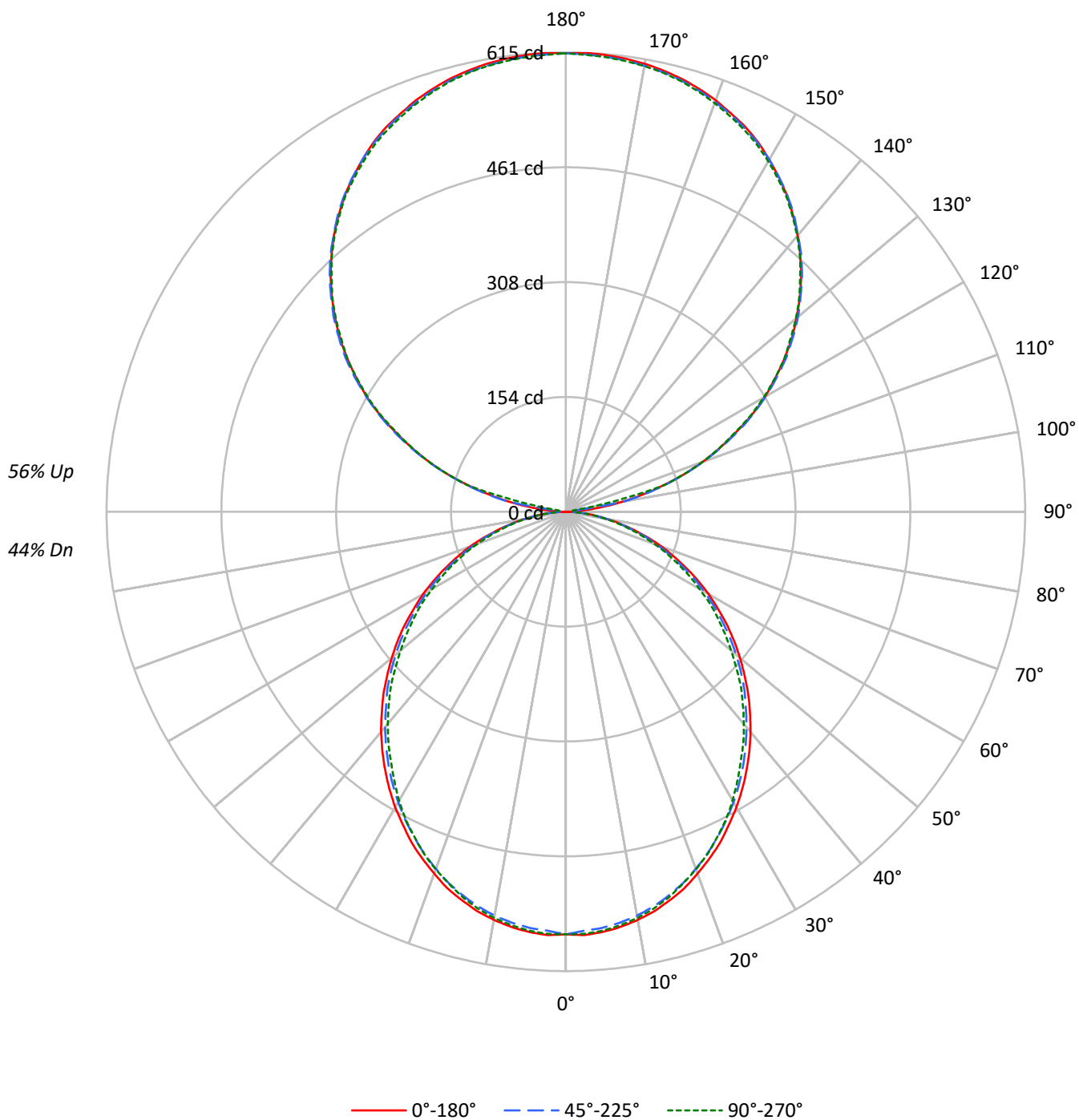
Lumens per Lamp: N/A
Luminaire Lumens: 3358.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	65	65	65	50	50	50
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	45	43	43
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	37	36
3	80	71	63	57	73	65	59	53	54	49	45	44	41	38	35	32	30
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26
5	67	56	47	42	61	51	44	39	43	37	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20
7	57	45	37	31	52	41	34	29	35	29	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.6
10°-20°	150.7	4.5
20°-30°	222.5	6.6
30°-40°	259.6	7.7
40°-50°	260.8	7.8
50°-60°	228.9	6.8
60°-70°	170.5	5.1
70°-80°	97.4	2.9
80°-90°	29.0	0.9
90°-100°	20.8	0.6
100°-110°	138.5	4.1
110°-120°	249.4	7.4
120°-130°	320.1	9.5
130°-140°	344.3	10.3
140°-150°	323.1	9.6
150°-160°	261.4	7.8
160°-170°	169.1	5.0
170°-180°	58.3	1.7
0°-30°	426.7	12.7
0°-40°	686.3	20.4
0°-60°	1176.0	35.0
0°-90°	1472.9	43.9
90°-120°	408.8	12.2
90°-150°	1396.4	41.6
90°-180°	1885.0	56.1
0°-180°	3358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	0	4	7	10	11	3
95°	26	25	7	10	10	32
105°	134	136	136	136	135	142
115°	251	253	254	252	249	249
125°	357	360	360	358	357	319
135°	445	448	447	446	444	343
145°	516	517	517	518	515	323
155°	569	566	567	568	564	262
165°	600	597	598	600	597	170
175°	614	611	611	615	611	58
180°	614	614	614	614	614	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	0.5	4.1	7.3	9.6	10.9
92.5°	8.6	4.5	7.3	9.6	10.0
95°	25.9	24.6	7.3	9.6	9.6
97.5°	48.7	51.4	8.2	9.1	9.6
100°	76.0	77.3	79.2	11.4	9.6
102.5°	103.7	105.5	106.4	107.4	69.1
105°	133.7	135.6	135.6	135.6	135.1
107.5°	164.7	164.7	165.6	166.0	164.2
110°	194.7	194.7	195.6	194.2	194.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.9	224.3	224.7	222.9	222.0
115°	251.1	253.4	253.8	252.0	249.3
117.5°	280.7	280.7	282.5	279.8	278.9
120°	308.0	307.5	308.9	308.0	305.7
122.5°	332.1	334.4	334.8	333.9	331.2
125°	357.1	360.3	360.3	358.5	357.1
127.5°	381.2	383.5	383.0	382.1	378.5
130°	403.1	405.3	405.8	404.4	402.1
132.5°	424.9	427.6	426.3	426.3	424.0
135°	445.4	448.1	447.2	446.3	443.5
137.5°	464.5	467.2	466.3	466.3	464.0
140°	483.1	484.0	483.6	484.5	481.8
142.5°	499.9	500.4	501.3	501.3	498.6
145°	516.3	517.2	517.2	517.7	515.0
147.5°	530.9	530.9	531.3	531.8	528.6
150°	544.5	543.6	544.5	545.4	541.8
152.5°	557.7	555.4	556.4	557.3	554.1
155°	568.6	565.9	566.8	568.2	564.5
157.5°	577.3	575.9	575.9	577.3	573.6
160°	586.4	583.7	584.1	585.9	582.3
162.5°	593.7	590.9	591.4	594.1	590.0
165°	600.0	597.3	597.8	600.5	596.8
167.5°	605.0	602.3	602.8	605.9	601.9
170°	609.1	605.9	606.4	610.0	605.9
172.5°	611.9	608.7	609.6	612.8	608.7
175°	613.7	610.9	611.4	615.0	610.9
177.5°	615.0	612.3	612.8	616.0	612.3
180°	613.7	613.7	613.7	613.7	613.7

(END OF REPORT)