

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: P1035328

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035328
REPORT IS A COMBINATION OF REPORTS P1003610 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-D
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

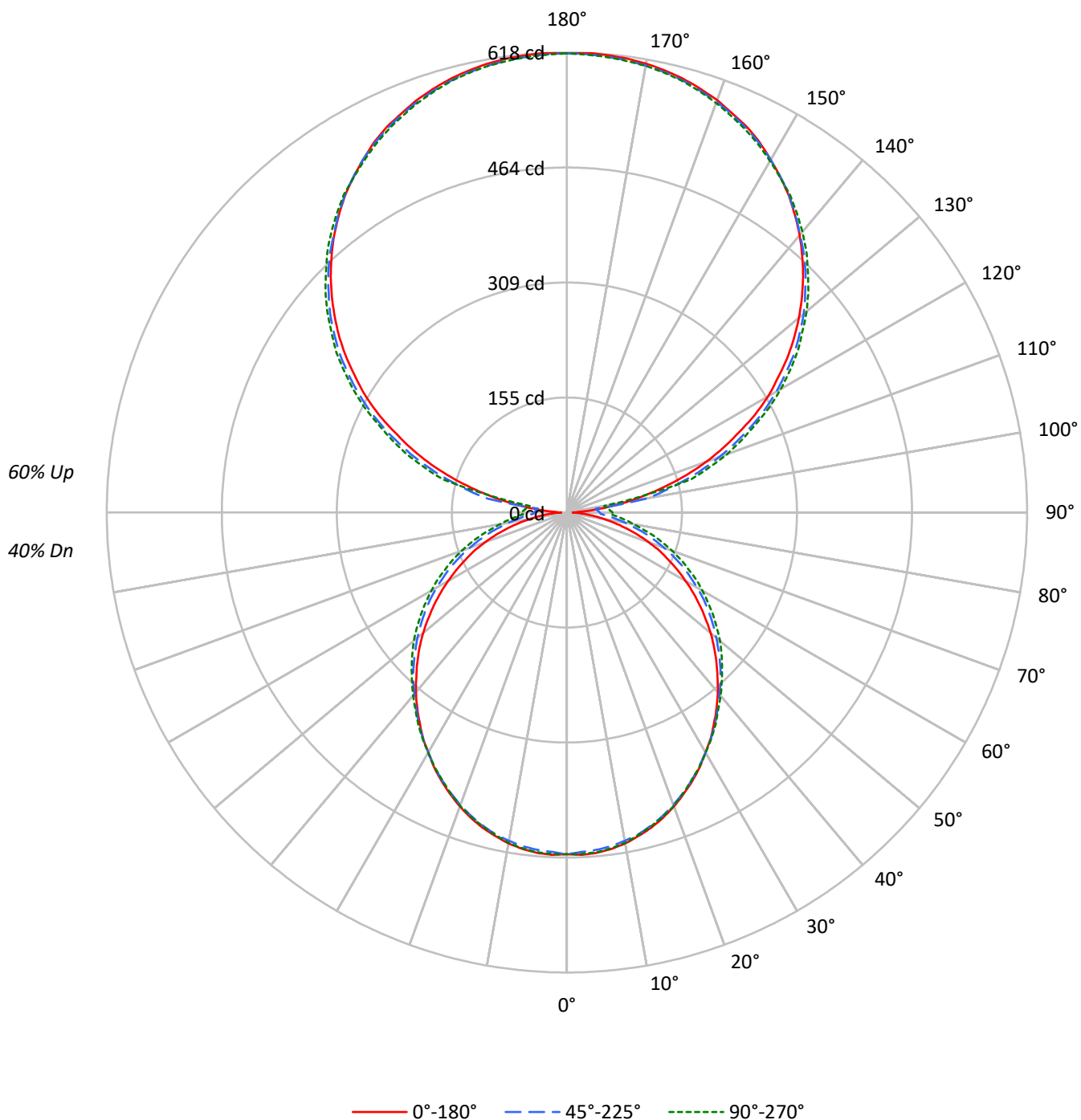
Lumens per Lamp: N/A
Luminaire Lumens: 3318.2 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	47	47	40
1	95	90	86	83	86	82	79	76	67	65	63	54	52	50	41	40	39	39	39	33
2	86	79	72	67	78	72	66	62	59	55	51	47	44	41	35	34	32	32	32	27
3	79	69	61	56	71	63	56	51	52	47	43	41	38	35	31	29	27	27	27	23
4	72	61	53	47	65	56	49	43	46	40	36	36	33	30	28	25	23	23	23	19
5	66	54	46	40	59	49	42	37	41	35	31	33	29	26	25	22	20	20	20	17
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18	18	18	14
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16	16	16	13
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	19	16	14	14	14	11
9	48	36	28	23	44	33	26	22	28	22	19	22	18	16	17	15	12	12	12	10
10	45	33	26	21	41	30	24	19	25	20	17	21	17	14	16	13	11	11	11	9

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	1.3
10°-20°	123.3	3.7
20°-30°	183.4	5.5
30°-40°	217.2	6.5
40°-50°	224.5	6.8
50°-60°	206.8	6.2
60°-70°	167.2	5.0
70°-80°	111.9	3.4
80°-90°	58.8	1.8
90°-100°	53.5	1.6
100°-110°	163.3	4.9
110°-120°	266.8	8.0
120°-130°	331.0	10.0
130°-140°	350.1	10.6
140°-150°	325.7	9.8
150°-160°	262.8	7.9
160°-170°	170.0	5.1
170°-180°	58.6	1.8
0°-30°	350.1	10.6
0°-40°	567.3	17.1
0°-60°	998.6	30.1
0°-90°	1336.4	40.3
90°-120°	483.6	14.6
90°-150°	1490.4	44.9
90°-180°	1982.0	59.7
0°-180°	3318.2	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	6
95°	32	42	40	52	56	37
105°	139	148	161	170	173	147
115°	255	261	273	279	279	253
125°	361	364	373	378	379	322
135°	449	451	453	458	458	346
145°	520	520	520	523	522	325
155°	572	569	570	571	568	263
165°	603	600	601	604	600	170
175°	617	614	615	618	614	59
180°	617	617	617	617	617	

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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°	15.0	24.0	42.4	54.6	58.3
95°	32.0	42.3	40.2	52.4	55.5
97.5°	54.3	67.9	39.3	49.6	53.3
100°	81.4	92.1	108.4	49.7	50.6
102.5°	108.8	119.2	134.0	143.9	108.2
105°	138.6	147.6	161.1	170.1	172.7
107.5°	169.2	175.5	189.5	198.9	199.8
110°	198.9	204.3	217.8	225.0	228.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.3	232.7	245.3	251.6	253.8
115°	255.1	260.6	272.8	279.1	279.0
117.5°	284.5	286.7	299.8	304.7	306.9
120°	311.9	312.8	324.5	331.2	331.6
122.5°	335.6	338.4	348.8	355.1	355.0
125°	360.8	363.6	372.6	378.0	378.8
127.5°	384.6	386.4	393.7	399.5	398.5
130°	406.6	408.4	415.1	420.1	420.1
132.5°	428.0	430.8	433.9	440.2	439.7
135°	448.6	451.0	453.2	458.1	457.6
137.5°	467.8	470.2	471.1	476.5	476.0
140°	486.2	487.1	487.0	493.0	492.0
142.5°	503.1	503.1	504.0	508.1	507.1
145°	519.6	520.0	520.0	522.7	521.8
147.5°	533.7	533.7	534.2	535.5	533.2
150°	547.4	546.5	547.4	548.3	545.2
152.5°	560.7	558.4	559.3	560.2	557.0
155°	571.7	568.9	569.8	571.2	567.5
157.5°	580.3	579.0	579.0	580.3	576.7
160°	589.5	586.7	587.2	589.0	585.4
162.5°	596.8	594.1	594.5	597.3	593.2
165°	603.2	600.5	600.9	603.7	600.0
167.5°	608.2	605.5	606.0	609.2	605.0
170°	612.4	609.2	609.6	613.3	609.2
172.5°	615.1	611.9	612.8	616.0	611.9
175°	616.9	614.2	614.6	618.3	614.2
177.5°	618.3	615.6	616.0	619.2	615.6
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)