

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: P1034517

Luminaire Tested: S125DIW-B375D470UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034517
REPORT IS A COMBINATION OF REPORTS P1003597 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D470UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

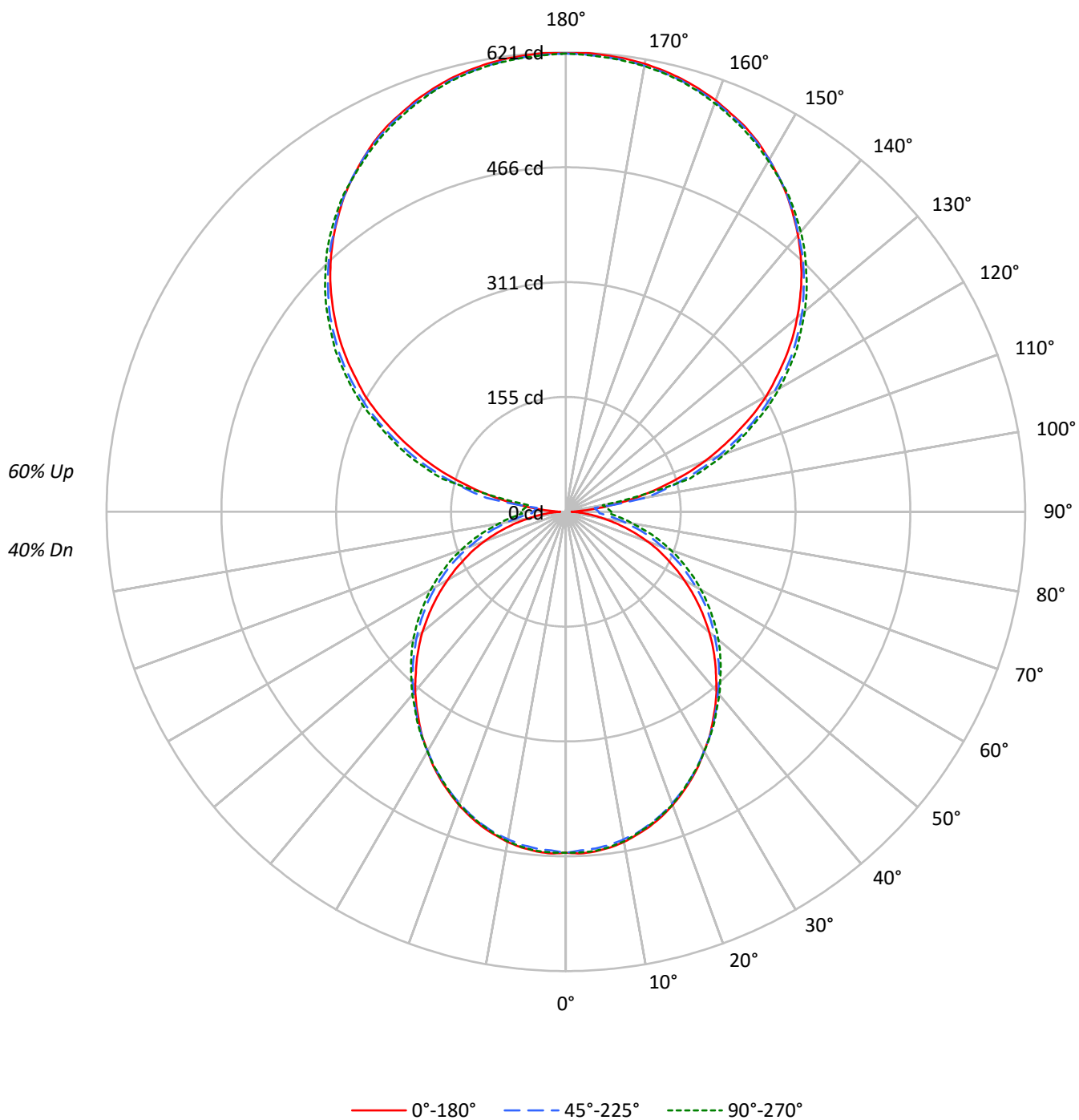
Lumens per Lamp: N/A
Luminaire Lumens: 3332.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1034517

CATALOG NUMBER: S125DIW-B375D470UB2750-4F0-XX-W2A-D_3500K

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

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

TEST NUMBER: P1034517

CATALOG NUMBER: S125DIW-B375D470UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.3
10°-20°	123.8	3.7
20°-30°	184.1	5.5
30°-40°	218.1	6.5
40°-50°	225.5	6.8
50°-60°	207.7	6.2
60°-70°	167.9	5.0
70°-80°	112.3	3.4
80°-90°	59.0	1.8
90°-100°	53.7	1.6
100°-110°	163.9	4.9
110°-120°	267.9	8.0
120°-130°	332.3	10.0
130°-140°	351.6	10.6
140°-150°	327.0	9.8
150°-160°	263.9	7.9
160°-170°	170.7	5.1
170°-180°	58.9	1.8
0°-30°	351.6	10.6
0°-40°	569.7	17.1
0°-60°	1002.8	30.1
0°-90°	1342.0	40.3
90°-120°	485.6	14.6
90°-150°	1496.6	44.9
90°-180°	1990.0	59.7
0°-180°	3332.0	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	6
95°	32	42	40	52	56	37
105°	139	148	162	171	174	147
115°	256	262	274	280	280	254
125°	362	365	374	380	380	324
135°	450	453	455	460	460	347
145°	522	522	522	525	524	326
155°	574	571	572	574	570	265
165°	606	603	604	606	602	171
175°	620	617	617	621	617	59
180°	620	620	620	620	620	

TEST NUMBER: P1034517

CATALOG NUMBER: S125DIW-B375D470UB2750-4F0-XX-W2A-D_3500K

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	44.4	57.1	61.6
92.5°	15.0	24.0	42.6	54.8	58.5
95°	32.1	42.4	40.3	52.5	55.7
97.5°	54.5	68.2	39.5	49.9	53.4
100°	81.7	92.6	108.8	49.9	50.7
102.5°	109.2	119.6	134.6	144.6	108.7
105°	139.1	148.2	161.8	170.8	173.5
107.5°	169.9	176.2	190.2	199.7	200.6
110°	199.8	205.2	218.7	225.9	229.6

TEST NUMBER: P1034517

CATALOG NUMBER: S125DIW-B375D470UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.2	233.6	246.3	252.6	254.8
115°	256.2	261.7	273.9	280.2	280.2
117.5°	285.7	287.9	301.0	305.9	308.2
120°	313.2	314.1	325.8	332.6	333.0
122.5°	337.1	339.9	350.2	356.5	356.4
125°	362.3	365.1	374.1	379.5	380.4
127.5°	386.3	388.1	395.3	401.2	400.2
130°	408.3	410.1	416.9	421.9	421.8
132.5°	429.8	432.6	435.7	442.1	441.6
135°	450.5	452.9	455.0	460.0	459.6
137.5°	469.8	472.2	473.0	478.4	477.9
140°	488.2	489.1	489.1	495.0	494.1
142.5°	505.2	505.2	506.1	510.2	509.2
145°	521.8	522.2	522.2	524.9	524.0
147.5°	536.0	536.0	536.4	537.8	535.5
150°	549.7	548.8	549.7	550.6	547.5
152.5°	563.0	560.8	561.7	562.6	559.4
155°	574.1	571.3	572.2	573.6	569.9
157.5°	582.8	581.4	581.4	582.8	579.1
160°	592.0	589.2	589.7	591.5	587.8
162.5°	599.3	596.6	597.0	599.8	595.7
165°	605.8	603.0	603.5	606.2	602.5
167.5°	610.8	608.1	608.5	611.7	607.6
170°	614.9	611.7	612.2	615.9	611.7
172.5°	617.7	614.5	615.4	618.6	614.5
175°	619.5	616.8	617.2	620.9	616.8
177.5°	620.9	618.2	618.6	621.8	618.2
180°	619.5	619.5	619.5	619.5	619.5

(END OF REPORT)