

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: P1035377

Luminaire Tested: S125DIW-B375D770UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035377
REPORT IS A COMBINATION OF REPORTS P1003704 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB50-4F0-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

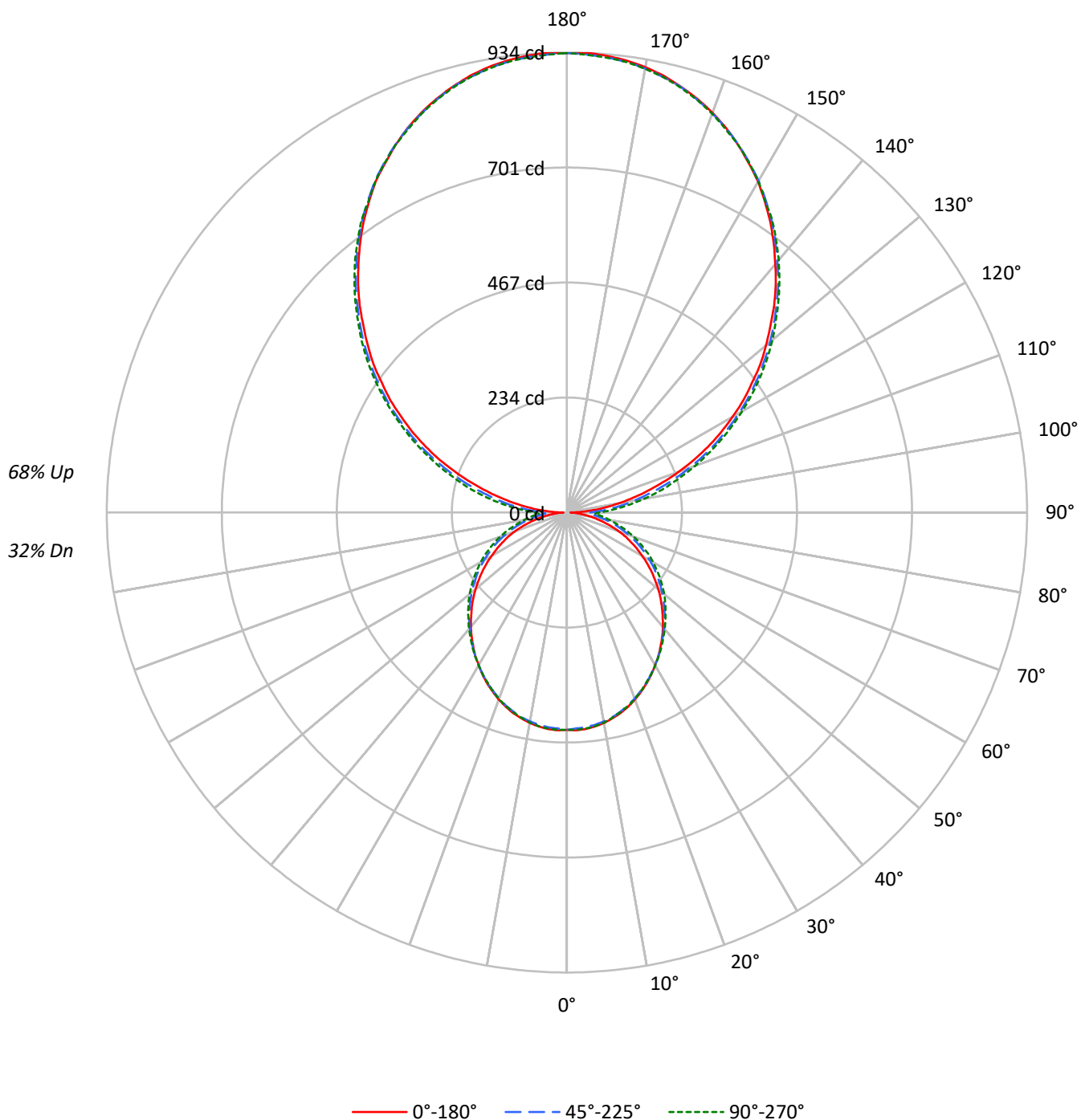
Lumens per Lamp: N/A
Luminaire Lumens: 3971.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	93	89	85	81	84	80	77	74	64	61	59	48	47	46	34	34	33
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27
3	77	68	60	55	69	61	55	50	49	44	41	37	34	32	26	25	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	21	20
5	65	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	27	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	11
10	44	32	25	20	39	29	23	19	24	19	16	19	15	13	14	11	10

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	1.1
10°-20°	118.5	3.0
20°-30°	176.3	4.4
30°-40°	208.8	5.3
40°-50°	215.8	5.4
50°-60°	198.8	5.0
60°-70°	160.7	4.0
70°-80°	107.6	2.7
80°-90°	57.0	1.4
90°-100°	93.3	2.4
100°-110°	207.4	5.2
110°-120°	328.0	8.3
120°-130°	420.2	10.6
130°-140°	464.9	11.7
140°-150°	452.7	11.4
150°-160°	379.6	9.6
160°-170°	252.3	6.4
170°-180°	88.3	2.2
0°-30°	336.6	8.5
0°-40°	545.3	13.7
0°-60°	960.0	24.2
0°-90°	1285.3	32.4
90°-120°	628.7	15.8
90°-150°	1966.4	49.5
90°-180°	2687.0	67.6
0°-180°	3971.9	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°	8	27	47	61	66	8
95°	53	66	88	102	106	54
105°	169	180	197	210	216	181
115°	316	321	334	341	343	312
125°	458	462	472	477	478	411
135°	595	599	602	608	607	458
145°	720	722	724	727	726	450
155°	823	823	824	827	823	379
165°	895	894	894	897	893	253
175°	931	928	928	932	927	88
180°	933	933	933	933	933	

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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°	7.6	27.3	47.1	60.6	65.9
92.5°	27.9	44.0	65.6	80.3	84.8
95°	52.8	65.5	87.5	102.1	106.5
97.5°	77.8	88.9	113.4	126.7	130.6
100°	106.4	115.4	138.8	154.4	158.5
102.5°	137.2	149.0	166.1	182.0	186.7
105°	169.4	179.9	197.3	210.3	215.5
107.5°	204.6	214.2	230.5	241.2	243.8
110°	241.1	249.9	264.2	274.7	277.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.9	284.2	298.8	307.3	308.9
115°	315.5	321.4	334.1	341.2	343.1
117.5°	352.8	355.7	367.9	376.0	376.1
120°	387.7	392.6	403.2	410.6	410.3
122.5°	424.9	426.2	437.8	444.0	444.4
125°	458.3	462.3	471.7	477.2	478.5
127.5°	495.0	496.7	504.8	510.5	511.7
130°	527.6	530.9	538.3	543.7	544.3
132.5°	559.9	566.4	570.0	575.3	574.9
135°	594.7	598.6	602.4	608.0	607.2
137.5°	627.4	631.3	634.5	640.4	638.5
140°	658.1	661.8	664.4	670.6	668.8
142.5°	689.3	691.8	694.7	699.4	697.4
145°	719.8	722.3	724.5	726.7	726.2
147.5°	747.7	749.9	751.4	754.5	749.4
150°	776.1	775.3	778.2	778.2	777.2
152.5°	799.3	800.7	801.5	803.6	800.7
155°	823.2	823.2	824.0	826.9	823.2
157.5°	845.0	843.6	844.3	847.2	842.1
160°	863.9	861.7	862.4	865.3	861.7
162.5°	880.6	879.1	879.1	882.8	878.4
165°	895.1	893.7	894.4	897.3	892.9
167.5°	908.2	905.3	905.3	909.6	905.3
170°	918.3	915.4	915.4	919.8	914.7
172.5°	925.6	922.7	922.7	927.1	922.7
175°	930.7	927.8	927.8	932.1	927.1
177.5°	934.3	931.4	930.7	935.0	930.0
180°	932.9	932.9	932.9	932.9	932.9

(END OF REPORT)