

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: P1035364

Luminaire Tested: S125DIW-B375D770UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035364
REPORT IS A COMBINATION OF REPORTS P1003685 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

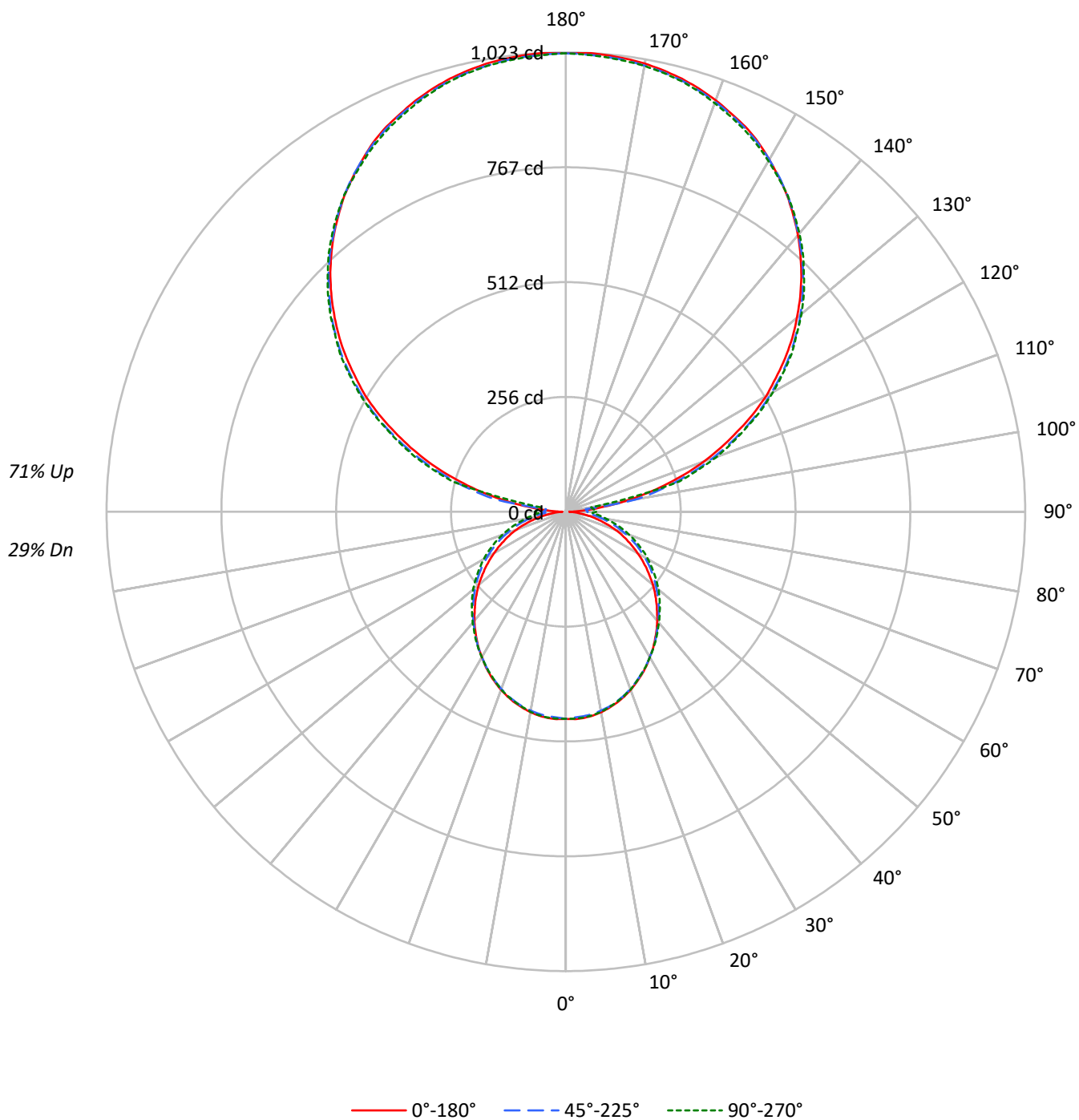
Lumens per Lamp: N/A
Luminaire Lumens: 4566.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	31	30
2	84	77	71	66	75	69	64	59	54	51	48	41	38	36	28	27	25
3	77	67	60	54	68	61	54	49	48	43	40	36	33	30	25	23	21
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18
5	64	53	45	39	57	47	41	35	38	33	29	28	25	22	20	18	16
6	59	47	39	33	53	42	36	31	34	29	25	25	22	19	18	16	14
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12
8	50	38	31	26	45	35	28	23	28	23	19	21	18	15	15	13	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	14	11	10
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.0
10°-20°	123.8	2.7
20°-30°	184.1	4.0
30°-40°	218.1	4.8
40°-50°	225.5	4.9
50°-60°	207.7	4.5
60°-70°	167.9	3.7
70°-80°	112.3	2.5
80°-90°	59.6	1.3
90°-100°	67.4	1.5
100°-110°	254.6	5.6
110°-120°	431.1	9.4
120°-130°	541.8	11.9
130°-140°	576.9	12.6
140°-150°	538.5	11.8
150°-160°	434.9	9.5
160°-170°	281.3	6.2
170°-180°	97.0	2.1
0°-30°	351.6	7.7
0°-40°	569.7	12.5
0°-60°	1002.8	22.0
0°-90°	1342.6	29.4
90°-120°	753.1	16.5
90°-150°	2410.2	52.8
90°-180°	3223.0	70.6
0°-180°	4566.0	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	28	49	63	69	7
95°	49	58	45	59	62	57
105°	227	237	250	260	262	240
115°	420	428	440	445	443	417
125°	596	601	610	614	614	532
135°	742	746	748	752	750	572
145°	860	861	861	864	861	537
155°	946	942	943	945	939	436
165°	998	994	995	999	993	282
175°	1021	1016	1017	1023	1016	97
180°	1021	1021	1021	1021	1021	

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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°	8.0	28.5	49.2	63.4	68.8
92.5°	20.7	27.0	47.4	61.1	65.1
95°	49.0	58.5	45.1	58.8	62.0
97.5°	86.4	101.8	44.8	55.8	59.7
100°	131.4	143.2	160.6	57.3	57.0
102.5°	177.1	188.7	204.2	214.8	153.9
105°	226.6	236.9	250.5	259.5	261.9
107.5°	277.6	283.9	298.5	308.4	308.0
110°	327.2	332.6	346.7	353.0	357.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.1	380.4	393.3	398.5	400.1
115°	420.5	427.5	440.0	445.1	443.3
117.5°	469.3	471.5	485.8	489.0	490.7
120°	514.7	515.3	527.9	534.1	533.0
122.5°	554.3	558.6	569.3	575.0	573.1
125°	596.0	600.9	609.9	614.0	614.1
127.5°	635.7	639.0	645.9	651.2	647.8
130°	672.0	675.3	682.4	686.5	684.9
132.5°	707.8	712.4	714.6	721.0	719.0
135°	741.9	746.0	747.6	752.0	749.8
137.5°	773.7	777.8	778.1	783.5	781.5
140°	804.3	805.8	805.5	812.0	809.3
142.5°	832.3	832.6	834.1	838.2	835.5
145°	859.6	860.6	860.6	863.7	860.9
147.5°	883.3	883.3	884.1	885.7	881.3
150°	906.0	904.5	906.0	907.5	902.0
152.5°	928.0	924.2	925.7	927.2	921.9
155°	946.1	941.6	943.1	945.4	939.3
157.5°	960.5	958.2	958.2	960.5	954.5
160°	975.6	971.1	971.9	974.9	968.8
162.5°	987.8	983.2	984.0	988.5	981.7
165°	998.4	993.8	994.6	999.1	993.1
167.5°	1006.7	1002.1	1002.9	1008.2	1001.4
170°	1013.5	1008.2	1009.0	1015.0	1008.2
172.5°	1018.0	1012.7	1014.2	1019.5	1012.7
175°	1021.1	1016.5	1017.3	1023.3	1016.5
177.5°	1023.3	1018.8	1019.5	1024.8	1018.8
180°	1021.1	1021.1	1021.1	1021.1	1021.1

(END OF REPORT)