

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: P1035658

Luminaire Tested: S125DIW-B850D770UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035658
REPORT IS A COMBINATION OF REPORTS P1004345 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB35-4F0-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

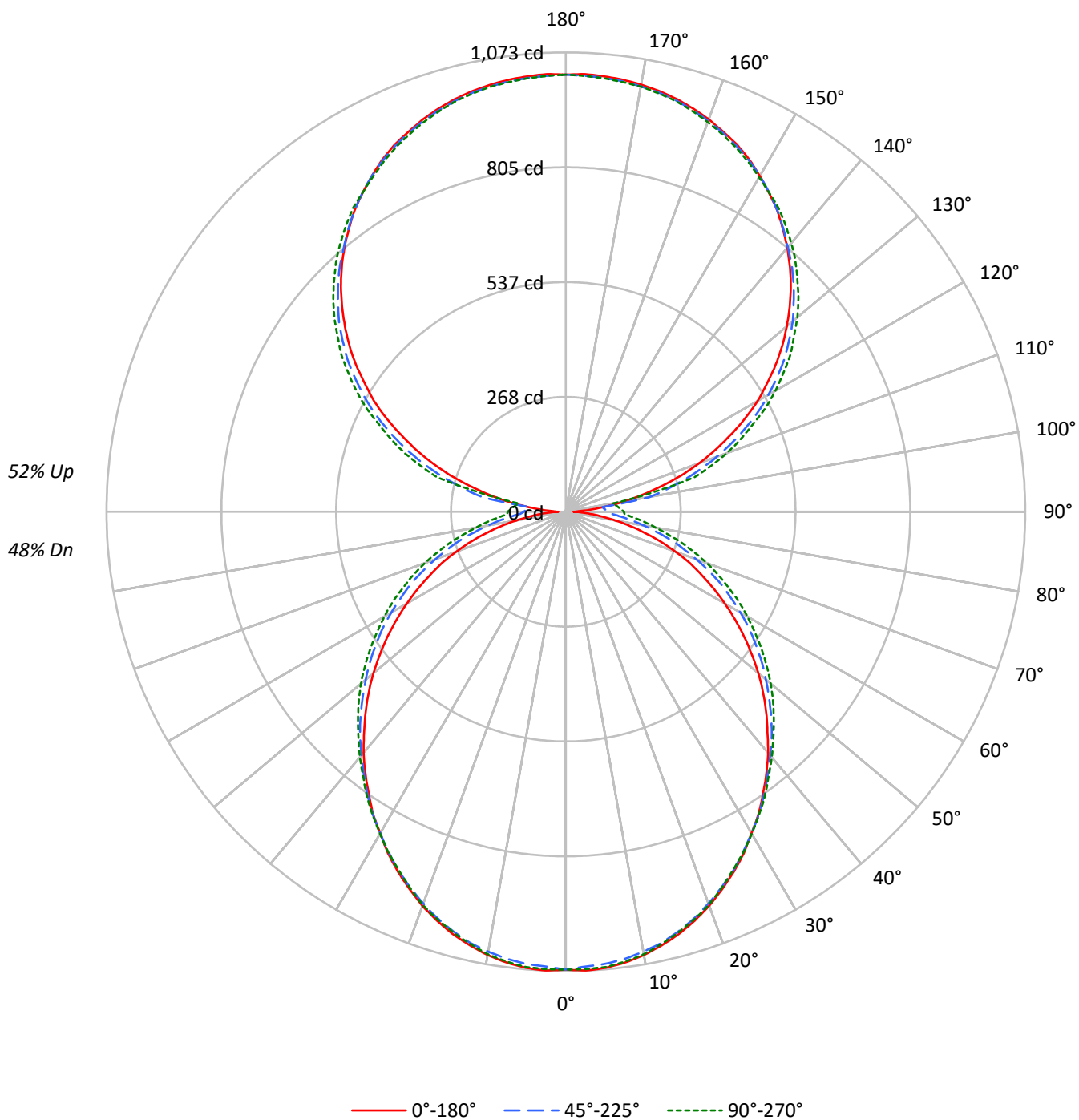
Lumens per Lamp: N/A
Luminaire Lumens: 6451.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45
2	88	80	74	68	80	74	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	43	38	40	36	32	32	29	27
5	67	55	47	41	61	51	43	38	43	37	33	36	31	28	29	26	23
6	62	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	22	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	22	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.6
10°-20°	287.3	4.5
20°-30°	427.2	6.6
30°-40°	505.9	7.8
40°-50°	523.1	8.1
50°-60°	481.9	7.5
60°-70°	389.5	6.0
70°-80°	260.6	4.0
80°-90°	136.2	2.1
90°-100°	110.5	1.7
100°-110°	286.4	4.4
110°-120°	452.4	7.0
120°-130°	553.8	8.6
130°-140°	582.1	9.0
140°-150°	539.5	8.4
150°-160°	434.9	6.7
160°-170°	281.3	4.4
170°-180°	97.0	1.5
0°-30°	815.7	12.6
0°-40°	1321.6	20.5
0°-60°	2326.6	36.1
0°-90°	3112.9	48.3
90°-120°	849.3	13.2
90°-150°	2524.8	39.1
90°-180°	3338.0	51.7
0°-180°	6451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	57	98	126	136	14
95°	57	82	89	116	123	64
105°	232	252	283	304	311	246
115°	424	435	463	479	481	420
125°	598	603	624	637	640	534
135°	743	746	752	764	765	573
145°	860	861	861	867	866	538
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°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	17.6	57.1	98.1	126.0	135.6
92.5°	29.1	52.7	93.9	120.7	128.9
95°	56.7	81.8	88.6	115.5	122.8
97.5°	93.6	123.2	85.9	109.5	117.6
100°	137.9	162.3	198.8	108.0	111.3
102.5°	183.1	206.0	240.0	262.5	205.2
105°	231.9	251.8	283.3	304.2	310.8
107.5°	282.4	297.1	329.0	350.7	353.9
110°	331.3	343.9	374.8	392.4	400.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.2	390.0	419.0	434.9	440.7
115°	424.1	435.2	463.3	479.1	480.9
117.5°	472.2	477.5	506.7	520.0	525.9
120°	517.6	520.1	546.4	562.7	565.2
122.5°	556.7	561.5	585.4	600.7	602.4
125°	598.4	602.6	623.6	637.3	640.3
127.5°	637.4	640.2	657.2	671.4	671.6
130°	673.7	676.5	692.0	704.4	705.8
132.5°	709.0	713.6	721.8	736.5	736.9
135°	743.1	746.5	752.4	764.5	765.3
137.5°	774.9	778.3	781.0	793.6	794.0
140°	804.8	806.3	806.7	819.7	819.4
142.5°	832.8	832.6	834.1	843.5	843.2
145°	860.1	860.6	860.6	866.6	866.2
147.5°	883.3	883.3	884.1	886.9	883.7
150°	906.0	904.5	906.0	907.5	902.5
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)