

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: P1035218

Luminaire Tested: S125DIW-B1270D770UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035218
REPORT IS A COMBINATION OF REPORTS P1003356 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

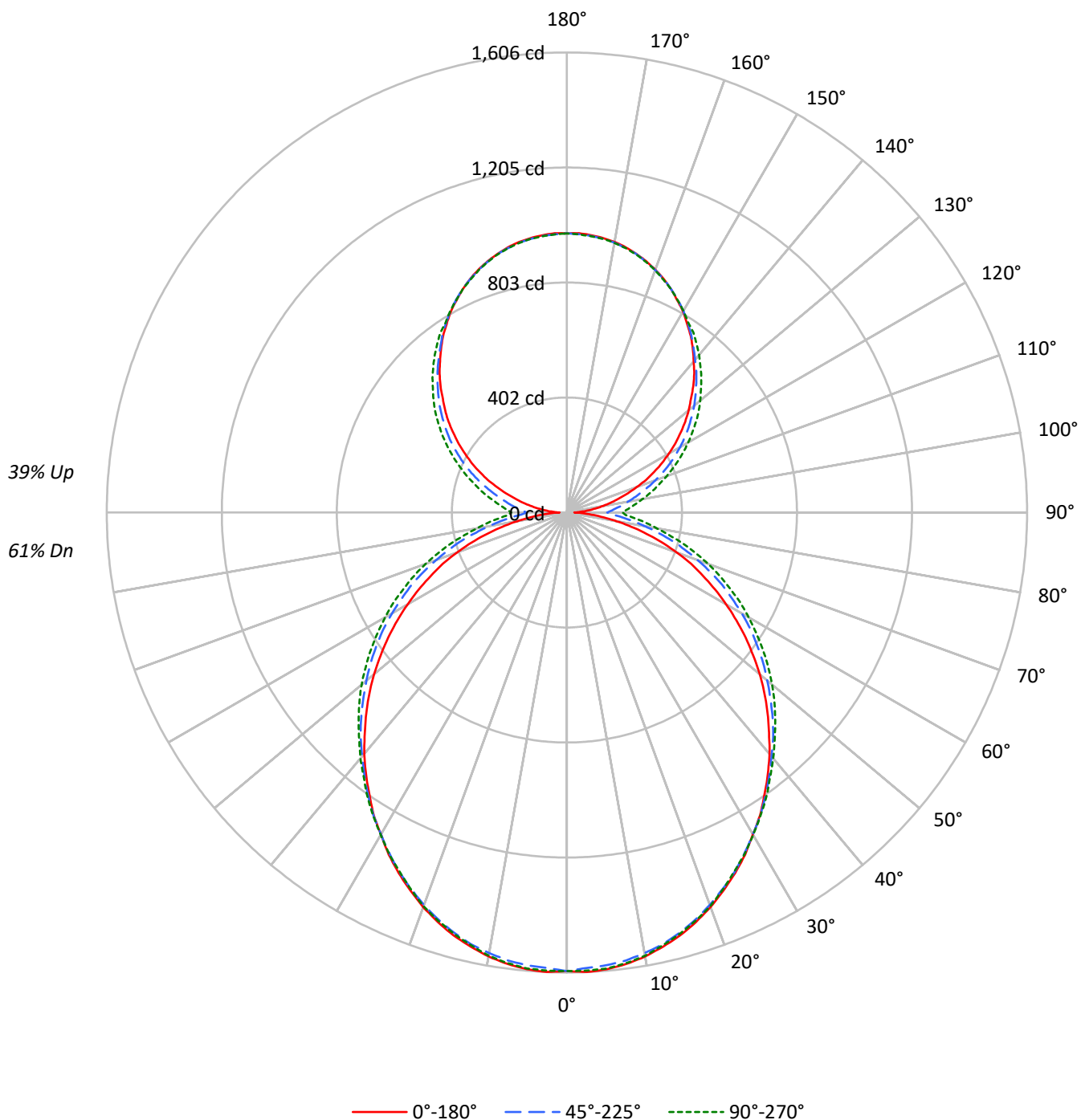
Lumens per Lamp: N/A
Luminaire Lumens: 7680.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	99	94	90	86	93	88	85	81	77	74	72	67	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	59	58	54	51	50	47	45
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	44	40	38
4	75	63	55	49	70	60	52	46	52	46	41	45	41	37	39	35	32
5	69	56	48	42	64	53	45	40	47	40	36	41	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	37	32	28	32	28	25
7	59	46	37	32	54	43	36	30	38	32	27	33	28	24	29	25	22
8	54	42	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	18
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.0
10°-20°	430.0	5.6
20°-30°	639.5	8.3
30°-40°	757.3	9.9
40°-50°	782.9	10.2
50°-60°	721.2	9.4
60°-70°	583.0	7.6
70°-80°	390.1	5.1
80°-90°	203.2	2.6
90°-100°	178.4	2.3
100°-110°	276.2	3.6
110°-120°	382.5	5.0
120°-130°	461.5	6.0
130°-140°	495.5	6.5
140°-150°	474.8	6.2
150°-160°	396.5	5.2
160°-170°	263.6	3.4
170°-180°	92.2	1.2
0°-30°	1221.0	15.9
0°-40°	1978.3	25.8
0°-60°	3482.4	45.3
0°-90°	4658.8	60.7
90°-120°	837.1	10.9
90°-150°	2268.9	29.5
90°-180°	3021.0	39.3
0°-180°	7680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	82	141	181	194	21
95°	70	112	173	213	225	68
105°	187	216	268	304	317	199
115°	336	350	393	420	429	333
125°	483	486	518	542	549	433
135°	623	626	638	659	663	481
145°	753	754	757	765	769	470
155°	860	860	861	864	860	396
165°	935	934	934	937	933	264
175°	972	969	969	974	968	92
180°	974	974	974	974	974	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	25.9	82.1	140.8	180.7	194.0
92.5°	44.7	94.0	155.8	195.6	208.1
95°	69.7	112.0	173.0	212.8	225.3
97.5°	94.6	133.1	195.5	233.0	244.7
100°	123.5	156.4	216.4	256.2	267.2
102.5°	154.5	188.1	240.6	279.5	291.2
105°	187.0	215.9	267.5	303.5	316.8
107.5°	222.6	248.3	297.6	331.3	340.7
110°	259.7	282.3	328.6	360.7	370.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	299.2	314.8	360.2	389.2	398.6
115°	336.2	350.3	392.6	420.1	428.8
117.5°	374.1	382.7	423.4	450.9	458.9
120°	410.5	419.0	455.9	482.5	488.9
122.5°	448.4	450.6	487.5	511.9	519.0
125°	483.3	486.2	518.4	542.0	549.1
127.5°	520.3	521.0	548.5	571.3	579.2
130°	554.5	556.7	580.2	601.4	607.7
132.5°	587.0	593.8	608.8	630.0	634.0
135°	623.4	626.4	638.2	658.6	663.4
137.5°	657.5	660.6	668.3	687.9	690.4
140°	688.6	692.4	696.2	715.0	717.5
142.5°	721.2	722.7	725.7	740.5	743.1
145°	753.1	754.5	756.8	764.6	768.6
147.5°	781.0	783.3	784.8	790.2	787.3
150°	810.6	809.9	812.9	812.9	813.0
152.5°	834.9	836.4	837.2	839.4	836.4
155°	859.9	859.9	860.7	863.7	859.9
157.5°	882.7	881.1	881.9	884.9	879.6
160°	902.4	900.1	900.8	903.9	900.1
162.5°	919.8	918.3	918.3	922.1	917.5
165°	935.0	933.5	934.2	937.2	932.7
167.5°	948.6	945.6	945.6	950.1	945.6
170°	959.2	956.2	956.2	960.8	955.4
172.5°	966.8	963.8	963.8	968.3	963.8
175°	972.1	969.1	969.1	973.6	968.3
177.5°	975.9	972.9	972.1	976.7	971.4
180°	974.4	974.4	974.4	974.4	974.4

(END OF REPORT)