

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: P1034458

Luminaire Tested: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034458
REPORT IS A COMBINATION OF REPORTS P1003335 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

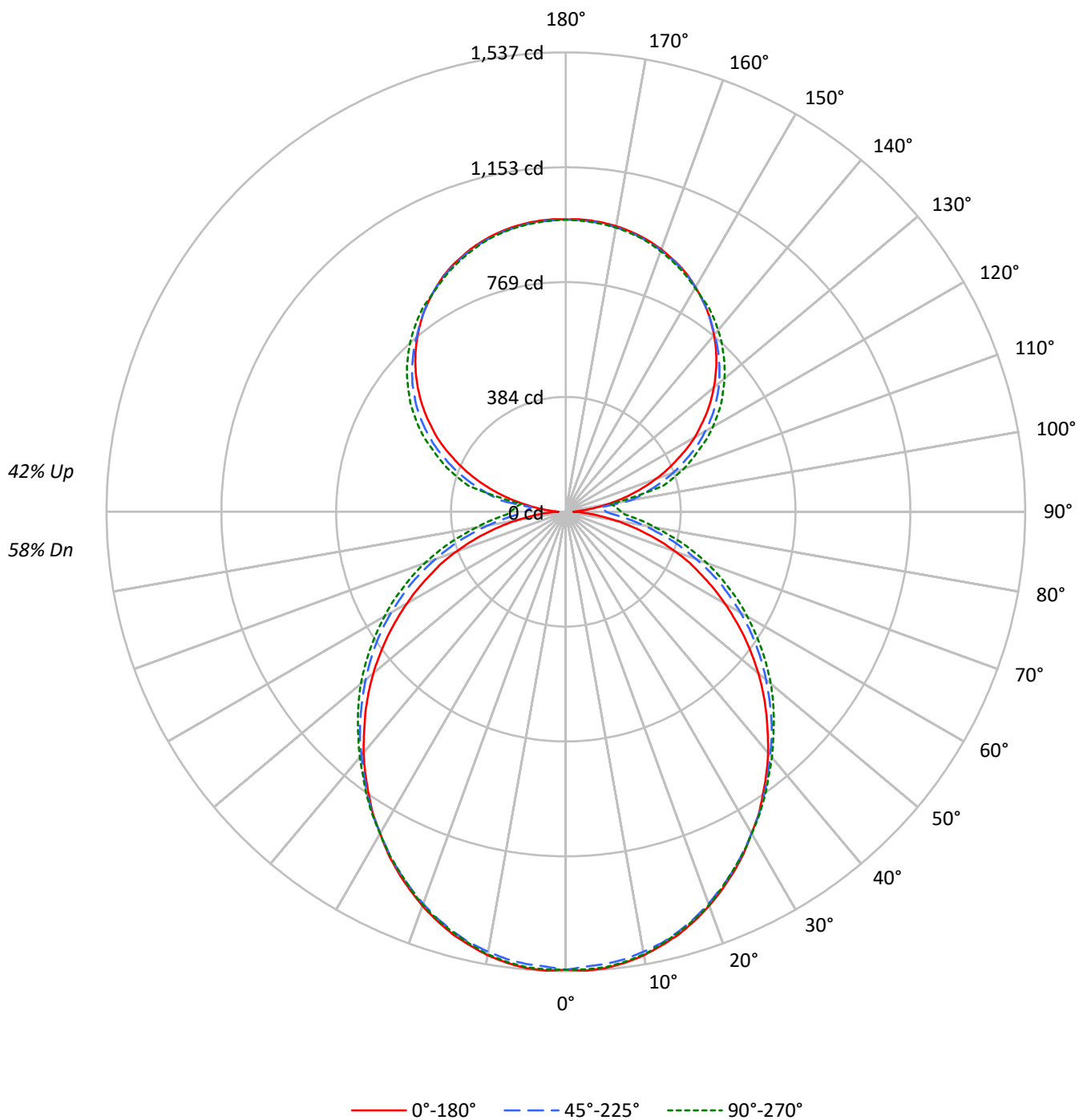
Lumens per Lamp: N/A
Luminaire Lumens: 7752.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58		
1	99	94	90	86	92	87	84	80	76	73	70	65	62	61	54	53	52	47		
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38		
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	42	39	36	32		
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	34	31	27		
5	68	56	48	41	63	52	45	39	46	40	35	39	35	31	33	30	27	24		
6	63	50	42	36	58	47	40	34	41	35	30	35	31	27	30	26	23	21		
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	28	24	21	18		
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	19	16		
9	50	38	30	25	47	35	28	24	31	25	21	27	22	19	23	20	17	15		
10	47	35	27	22	44	33	26	21	29	23	19	25	20	17	22	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.9
10°-20°	411.6	5.3
20°-30°	612.1	7.9
30°-40°	724.9	9.4
40°-50°	749.5	9.7
50°-60°	690.4	8.9
60°-70°	558.1	7.2
70°-80°	373.4	4.8
80°-90°	194.5	2.5
90°-100°	141.9	1.8
100°-110°	300.8	3.9
110°-120°	451.0	5.8
120°-130°	540.5	7.0
130°-140°	561.9	7.2
140°-150°	517.5	6.7
150°-160°	416.5	5.4
160°-170°	269.4	3.5
170°-180°	92.9	1.2
0°-30°	1168.8	15.1
0°-40°	1893.7	24.4
0°-60°	3333.6	43.0
0°-90°	4459.6	57.5
90°-120°	893.8	11.5
90°-150°	2513.6	32.4
90°-180°	3292.0	42.5
0°-180°	7752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	25	79	135	173	186	19
95°	61	98	121	158	168	66
105°	227	254	299	329	338	240
115°	409	423	463	487	492	406
125°	575	579	609	630	635	513
135°	713	715	724	743	746	549
145°	824	824	824	832	834	515
155°	906	902	903	905	900	417
165°	956	952	952	957	951	270
175°	978	973	974	980	973	93
180°	978	978	978	978	978	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	24.7	78.6	134.8	172.9	185.7
92.5°	34.8	71.8	128.8	165.4	176.6
95°	60.8	97.7	121.3	157.9	168.4
97.5°	95.6	136.0	116.7	149.7	160.9
100°	137.5	171.3	222.2	145.8	151.9
102.5°	180.3	211.8	259.7	291.3	239.4
105°	226.6	253.6	298.6	328.7	338.5
107.5°	274.4	295.5	340.4	371.3	377.4
110°	320.7	338.7	382.3	408.7	419.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.7	381.3	422.7	446.8	455.9
115°	409.1	423.2	463.1	487.2	491.8
117.5°	454.7	462.2	502.7	523.9	532.9
120°	498.2	502.0	538.8	562.8	568.2
122.5°	535.1	540.2	574.1	596.6	601.3
125°	575.0	578.6	608.7	629.8	635.1
127.5°	611.9	614.0	638.8	660.0	663.2
130°	646.7	648.8	670.5	689.5	693.3
132.5°	680.0	684.3	697.2	718.3	720.6
135°	712.6	715.4	724.5	742.6	745.8
137.5°	743.0	745.9	750.4	768.4	770.8
140°	771.3	772.7	773.5	791.4	793.1
142.5°	798.1	797.3	798.8	812.3	813.9
145°	824.2	824.1	824.1	832.3	834.0
147.5°	845.9	845.9	846.6	850.3	848.2
150°	867.6	866.2	867.6	869.1	864.8
152.5°	888.6	885.0	886.5	887.9	882.8
155°	906.0	901.7	903.1	905.3	899.5
157.5°	919.8	917.6	917.6	919.8	914.0
160°	934.3	929.9	930.7	933.6	927.8
162.5°	945.9	941.5	942.3	946.6	940.1
165°	956.0	951.7	952.4	956.8	951.0
167.5°	964.0	959.7	960.4	965.5	958.9
170°	970.5	965.5	966.2	972.0	965.5
172.5°	974.9	969.8	971.3	976.3	969.8
175°	977.8	973.4	974.2	980.0	973.4
177.5°	980.0	975.6	976.3	981.4	975.6
180°	977.8	977.8	977.8	977.8	977.8

(END OF REPORT)