

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: P1034454

Luminaire Tested: S125DIW-B1270D770UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034454
REPORT IS A COMBINATION OF REPORTS P1003329 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-D1_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

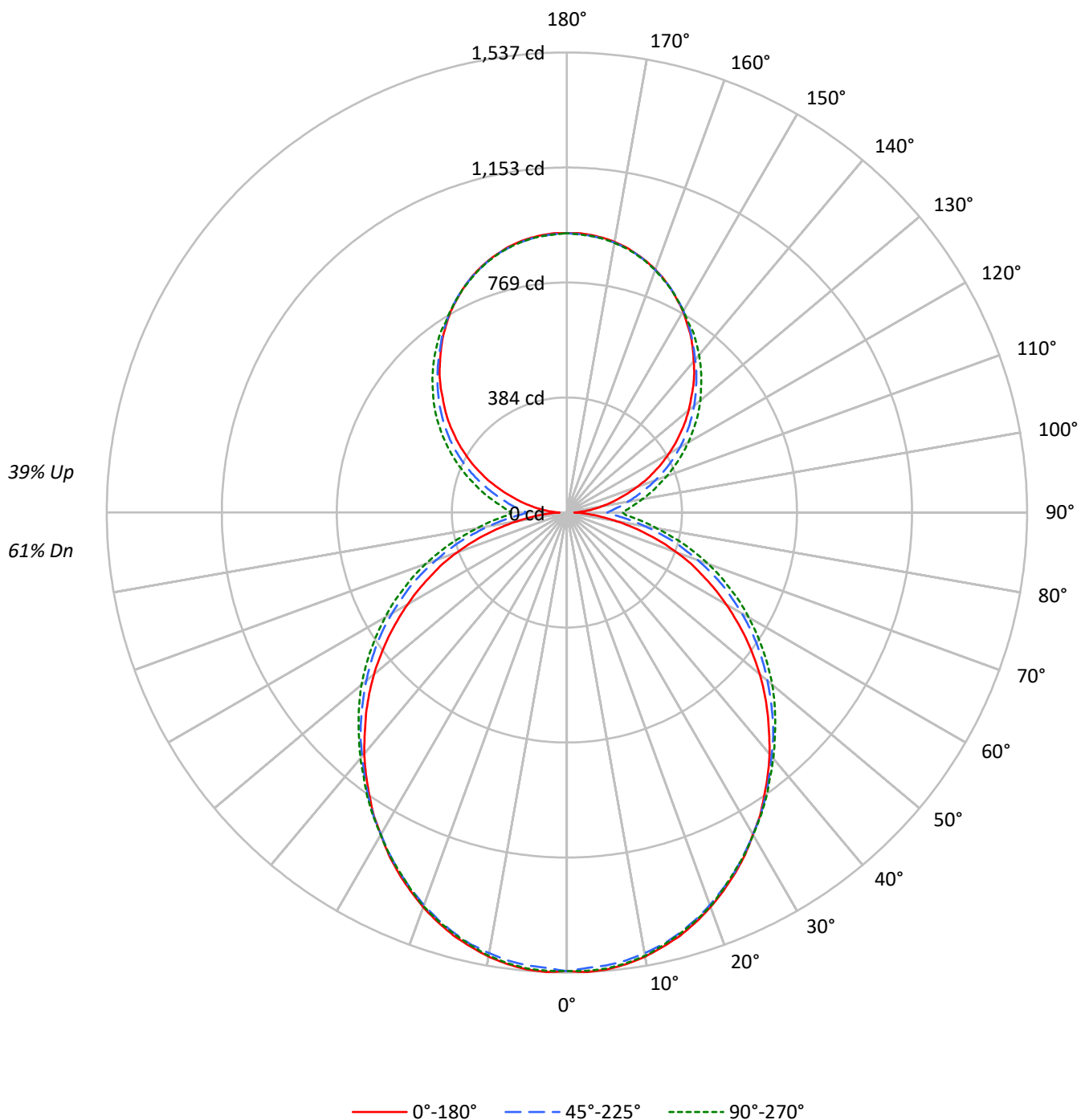
Lumens per Lamp: N/A
Luminaire Lumens: 7351.9 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	110	110	110	110	103	103	103	103	89	89	89		77	77	77		66
1	99	94	90	86	93	88	85	81	77	74	72		67	64	62		57
2	90	82	75	70	84	77	71	66	67	62	59		58	54	51		50
3	82	72	64	58	76	67	60	55	59	53	49		51	47	43		44
4	75	63	55	49	70	60	52	46	52	46	41		45	41	37		39
5	69	56	48	42	64	53	45	40	47	40	36		41	36	32		35
6	63	51	42	36	59	48	40	34	42	36	31		37	32	28		32
7	59	46	37	32	54	43	36	30	38	32	27		33	28	24		29
8	54	42	33	28	51	39	32	27	35	29	24		30	25	22		26
9	51	38	30	25	47	36	29	24	32	26	22		28	23	20		24
10	47	35	27	22	44	33	26	21	29	24	20		26	21	18		23

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	2.0
10°-20°	411.6	5.6
20°-30°	612.1	8.3
30°-40°	724.9	9.9
40°-50°	749.5	10.2
50°-60°	690.4	9.4
60°-70°	558.1	7.6
70°-80°	373.4	5.1
80°-90°	194.5	2.6
90°-100°	170.7	2.3
100°-110°	264.4	3.6
110°-120°	366.2	5.0
120°-130°	441.8	6.0
130°-140°	474.3	6.5
140°-150°	454.5	6.2
150°-160°	379.6	5.2
160°-170°	252.3	3.4
170°-180°	88.3	1.2
0°-30°	1168.8	15.9
0°-40°	1893.7	25.8
0°-60°	3333.6	45.3
0°-90°	4459.6	60.7
90°-120°	801.3	10.9
90°-150°	2172.1	29.5
90°-180°	2892.0	39.3
0°-180°	7351.9	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	20
95°	67	107	166	204	216	65
105°	179	207	256	291	303	191
115°	322	335	376	402	410	319
125°	463	466	496	519	526	414
135°	597	600	611	630	635	460
145°	721	722	724	732	736	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°	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°	42.8	90.0	149.1	187.2	199.2
95°	66.7	107.2	165.6	203.7	215.6
97.5°	90.6	127.4	187.2	223.0	234.3
100°	118.1	149.7	207.2	245.3	255.8
102.5°	147.9	180.1	230.2	267.6	278.7
105°	179.0	206.7	256.1	290.6	303.2
107.5°	213.1	237.8	285.0	317.2	326.2
110°	248.6	270.2	314.5	345.3	355.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.4	301.3	344.8	372.5	381.7
115°	321.9	335.3	375.8	402.1	410.4
117.5°	358.1	366.4	405.4	431.6	439.2
120°	393.0	401.1	436.4	461.9	468.0
122.5°	429.2	431.5	466.7	490.0	496.8
125°	462.6	465.5	496.3	518.9	525.6
127.5°	498.2	498.8	525.1	546.9	554.5
130°	530.8	533.0	555.4	575.8	581.8
132.5°	562.0	568.5	582.8	603.2	607.0
135°	596.8	599.7	610.9	630.4	635.1
137.5°	629.5	632.4	639.8	658.5	660.9
140°	659.2	662.9	666.5	684.5	686.9
142.5°	690.4	691.8	694.7	709.0	711.3
145°	720.9	722.3	724.5	732.0	735.8
147.5°	747.7	749.9	751.4	756.6	753.7
150°	776.1	775.3	778.2	778.2	778.3
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)