

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: P1035206

Luminaire Tested: S125DIW-B1270D770UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035206
REPORT IS A COMBINATION OF REPORTS P1003317 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

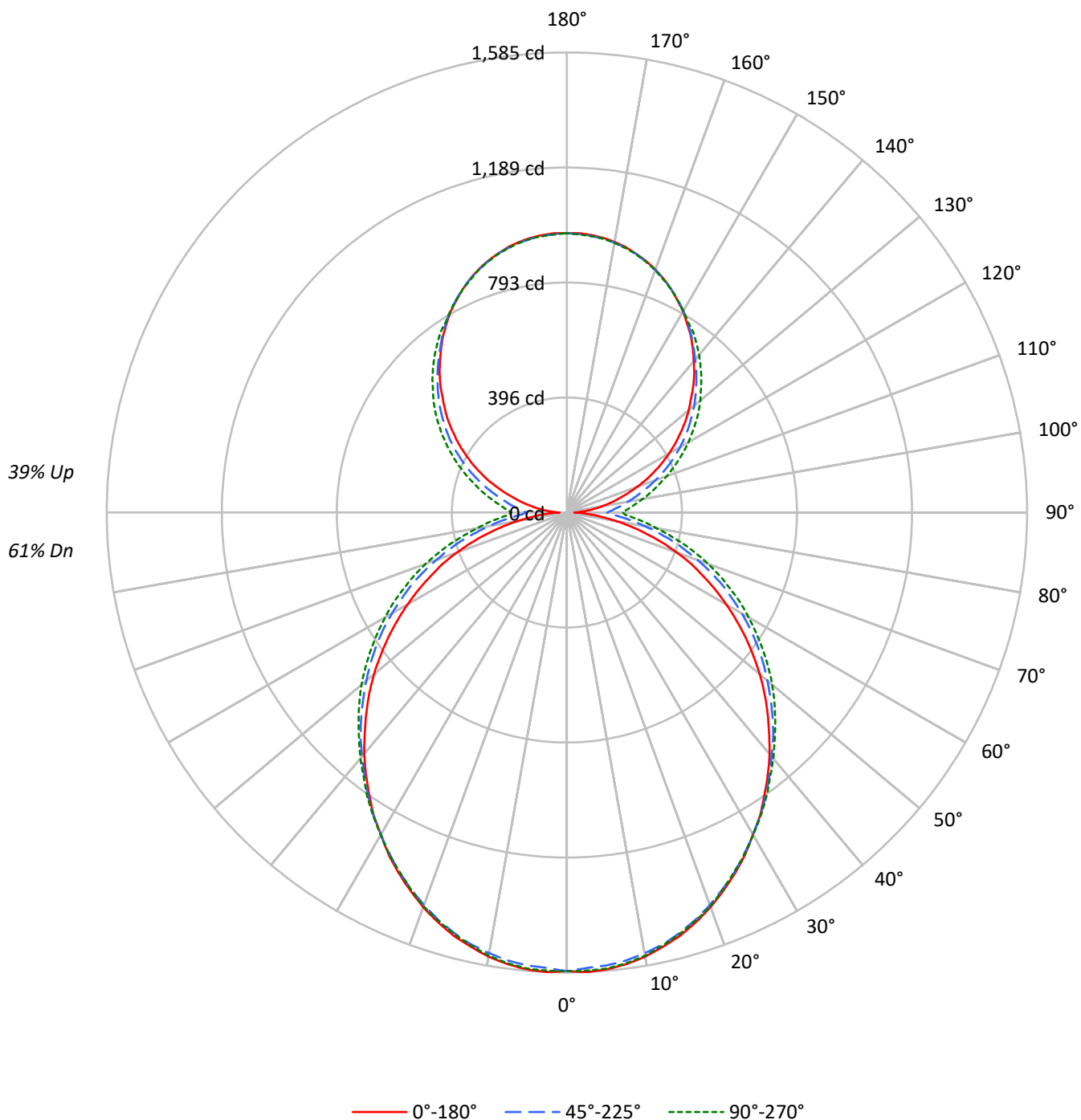
Lumens per Lamp: N/A
Luminaire Lumens: 7581.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.0
10°-20°	424.5	5.6
20°-30°	631.2	8.3
30°-40°	747.5	9.9
40°-50°	772.8	10.2
50°-60°	711.9	9.4
60°-70°	575.5	7.6
70°-80°	385.1	5.1
80°-90°	200.5	2.6
90°-100°	176.1	2.3
100°-110°	272.7	3.6
110°-120°	377.6	5.0
120°-130°	455.6	6.0
130°-140°	489.1	6.5
140°-150°	468.7	6.2
150°-160°	391.4	5.2
160°-170°	260.2	3.4
170°-180°	91.1	1.2
0°-30°	1205.2	15.9
0°-40°	1952.7	25.8
0°-60°	3437.5	45.3
0°-90°	4598.7	60.7
90°-120°	826.3	10.9
90°-150°	2239.7	29.5
90°-180°	2982.0	39.3
0°-180°	7581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	81	139	178	192	20
95°	69	111	171	210	222	67
105°	185	213	264	300	313	197
115°	332	346	388	415	423	328
125°	477	480	512	535	542	427
135°	615	618	630	650	655	474
145°	743	745	747	755	759	464
155°	849	849	850	853	849	391
165°	923	921	922	925	921	260
175°	960	957	957	961	956	91
180°	962	962	962	962	962	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.5	81.1	139.0	178.4	191.5
92.5°	44.2	92.8	153.7	193.1	205.5
95°	68.8	110.6	170.7	210.1	222.4
97.5°	93.5	131.4	193.0	230.0	241.6
100°	121.8	154.4	213.6	253.0	263.8
102.5°	152.5	185.6	237.4	275.9	287.4
105°	184.6	213.1	264.1	299.6	312.6
107.5°	219.7	245.2	293.8	327.1	336.4
110°	256.3	278.7	324.3	356.0	366.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	295.2	310.7	355.5	384.2	393.5
115°	331.9	345.7	387.5	414.7	423.2
117.5°	369.2	377.8	418.0	445.1	452.9
120°	405.2	413.6	450.0	476.4	482.7
122.5°	442.6	444.8	481.2	505.2	512.3
125°	477.0	479.9	511.7	535.0	542.0
127.5°	513.6	514.4	541.4	564.0	571.8
130°	547.3	549.5	572.7	593.7	599.9
132.5°	579.5	586.2	601.0	621.9	625.9
135°	615.4	618.3	629.9	650.0	654.8
137.5°	649.1	652.0	659.7	679.0	681.5
140°	679.7	683.4	687.3	705.8	708.2
142.5°	711.9	713.4	716.4	731.0	733.5
145°	743.3	744.8	747.0	754.7	758.7
147.5°	771.0	773.2	774.7	780.1	777.2
150°	800.2	799.4	802.4	802.4	802.4
152.5°	824.1	825.6	826.4	828.6	825.6
155°	848.8	848.8	849.6	852.6	848.8
157.5°	871.3	869.8	870.5	873.5	868.3
160°	890.8	888.5	889.3	892.3	888.5
162.5°	908.0	906.5	906.5	910.2	905.7
165°	922.9	921.4	922.2	925.2	920.7
167.5°	936.4	933.4	933.4	937.9	933.4
170°	946.9	943.9	943.9	948.4	943.2
172.5°	954.4	951.4	951.4	955.9	951.4
175°	959.6	956.6	956.6	961.1	955.9
177.5°	963.4	960.4	959.6	964.1	958.9
180°	961.9	961.9	961.9	961.9	961.9

(END OF REPORT)