

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: P1034456

Luminaire Tested: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034456
REPORT IS A COMBINATION OF REPORTS P1003332 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_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

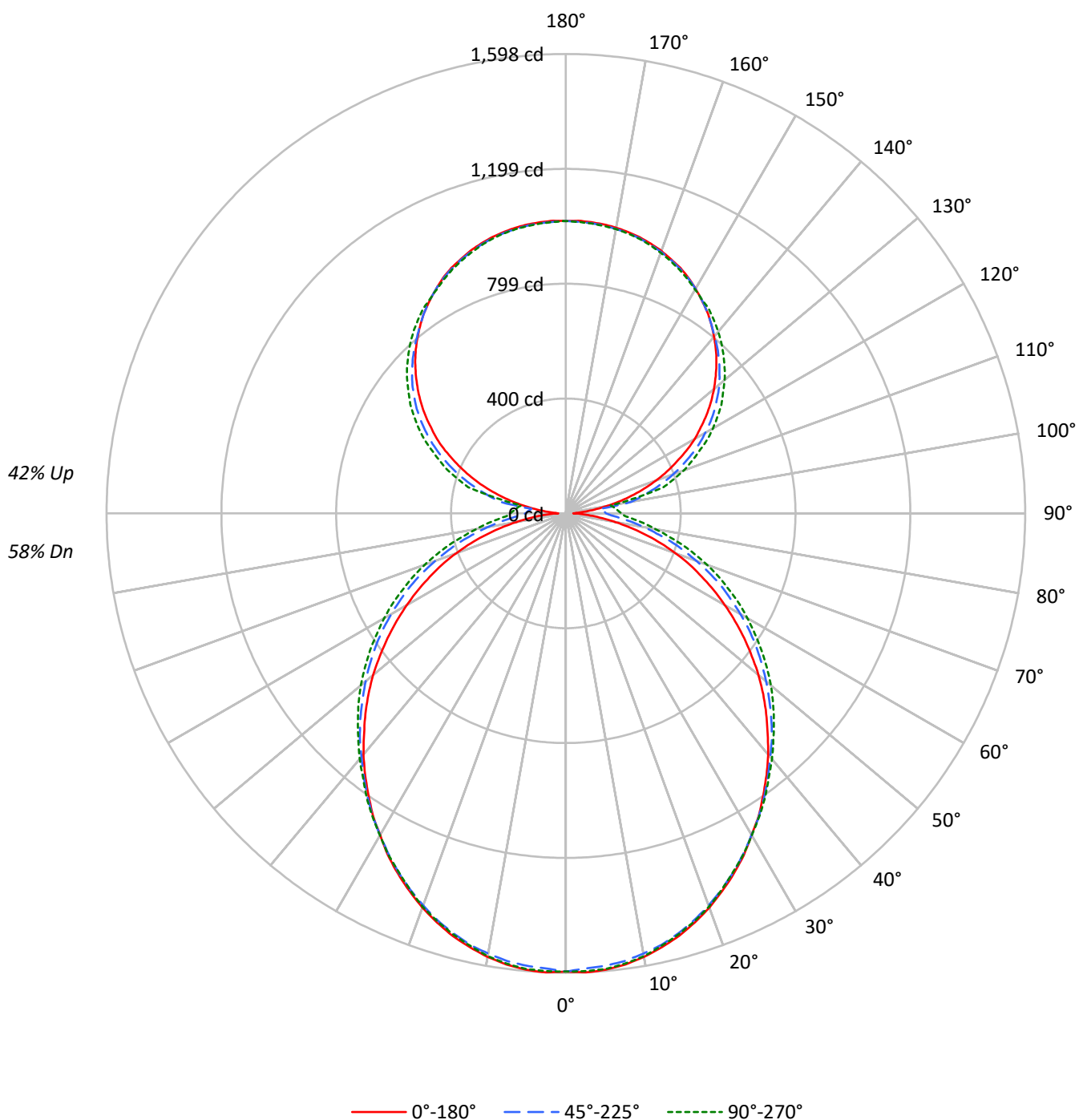
Lumens per Lamp: N/A
Luminaire Lumens: 8062.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.9
10°-20°	428.1	5.3
20°-30°	636.6	7.9
30°-40°	754.0	9.4
40°-50°	779.5	9.7
50°-60°	718.0	8.9
60°-70°	580.5	7.2
70°-80°	388.4	4.8
80°-90°	202.3	2.5
90°-100°	147.6	1.8
100°-110°	312.8	3.9
110°-120°	469.1	5.8
120°-130°	562.0	7.0
130°-140°	584.3	7.2
140°-150°	538.2	6.7
150°-160°	433.1	5.4
160°-170°	280.1	3.5
170°-180°	96.6	1.2
0°-30°	1215.5	15.1
0°-40°	1969.5	24.4
0°-60°	3467.0	43.0
0°-90°	4638.1	57.5
90°-120°	929.5	11.5
90°-150°	2614.1	32.4
90°-180°	3424.0	42.5
0°-180°	8062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	82	140	180	193	20
95°	63	102	126	164	175	69
105°	236	264	310	342	352	250
115°	426	440	482	507	512	422
125°	598	602	633	655	660	534
135°	741	744	754	772	776	571
145°	857	857	857	866	867	536
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	25.8	81.8	140.2	179.9	193.1
92.5°	36.2	74.7	134.0	172.0	183.8
95°	63.3	101.6	126.2	164.2	175.2
97.5°	99.4	141.4	121.4	155.7	167.4
100°	143.1	178.1	231.2	151.6	158.0
102.5°	187.5	220.2	270.1	302.9	249.0
105°	235.7	263.7	310.5	341.8	352.0
107.5°	285.4	307.3	354.1	386.0	392.4
110°	333.5	352.3	397.5	425.0	436.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.2	396.6	439.6	464.6	474.0
115°	425.5	440.1	481.5	506.7	511.5
117.5°	472.9	480.7	522.8	544.8	554.3
120°	518.1	522.0	560.2	585.3	590.9
122.5°	556.4	561.8	597.0	620.5	625.3
125°	597.9	601.7	632.9	654.9	660.4
127.5°	636.4	638.5	664.4	686.3	689.6
130°	672.5	674.7	697.4	717.0	721.0
132.5°	707.1	711.6	725.0	746.9	749.4
135°	741.0	744.1	753.5	772.2	775.5
137.5°	772.7	775.7	780.4	799.2	801.6
140°	802.1	803.6	804.4	823.1	824.8
142.5°	830.0	829.1	830.7	844.8	846.4
145°	857.1	857.0	857.0	865.6	867.4
147.5°	879.6	879.6	880.4	884.3	882.1
150°	902.3	900.8	902.3	903.8	899.3
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)