

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: P1035176

Luminaire Tested: S125DIW-B1270D470UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035176
REPORT IS A COMBINATION OF REPORTS P1003251 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB27-4F0-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

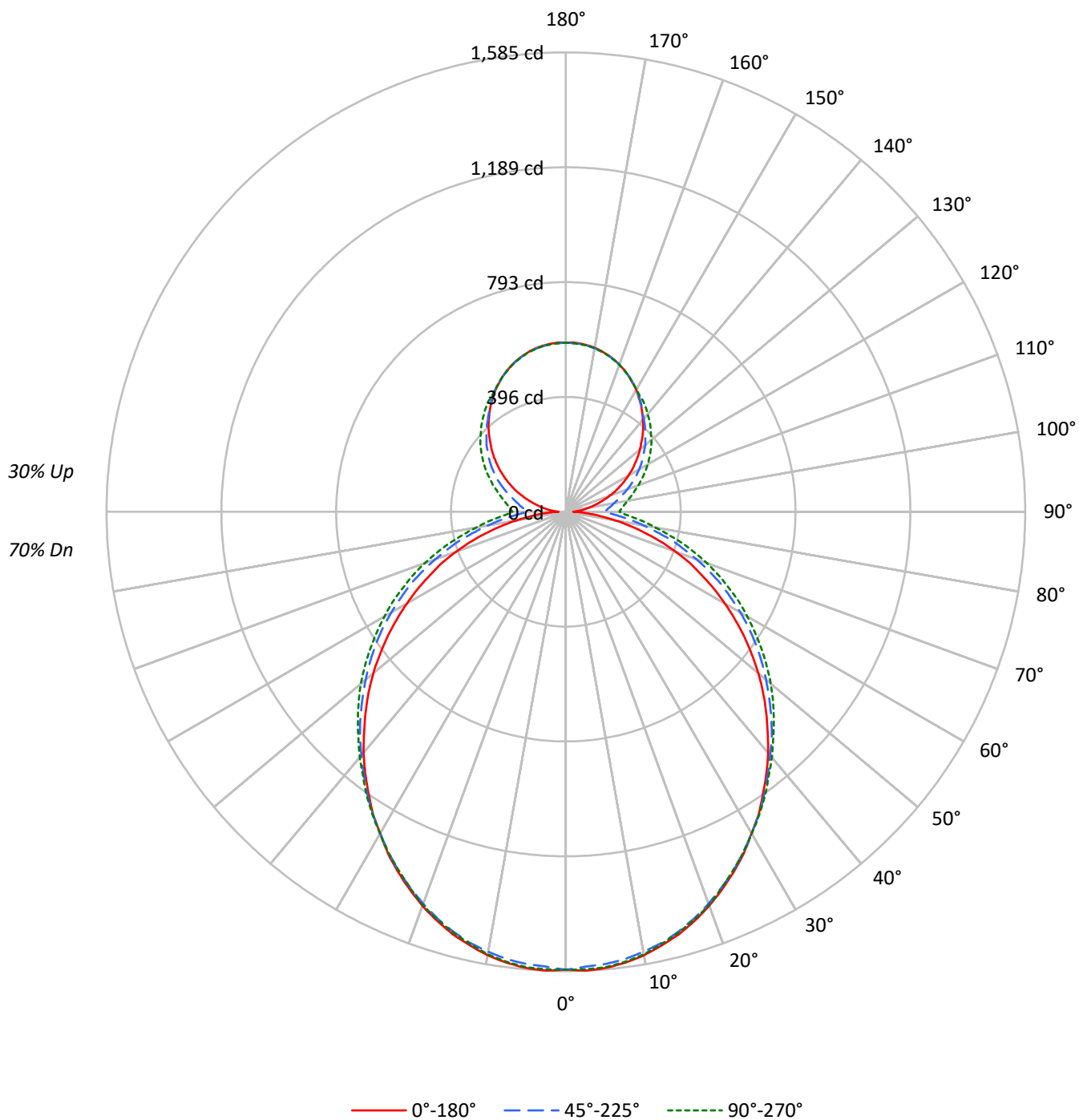
Lumens per Lamp: N/A
Luminaire Lumens: 6525.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75
1	101	96	92	88	96	91	87	84	82	79	76	73	70	68	65	63	61
2	92	84	77	71	87	79	73	68	71	66	62	63	60	56	56	53	51
3	84	73	65	59	79	69	62	56	62	56	52	56	51	47	50	46	43
4	76	65	56	50	72	61	54	48	55	49	44	49	44	40	44	40	37
5	70	58	49	42	66	55	47	41	49	43	38	44	39	35	40	35	32
6	65	52	43	37	61	49	41	36	44	38	33	40	35	30	36	31	28
7	60	47	38	32	56	45	37	31	40	34	29	36	31	27	33	28	25
8	56	43	34	29	52	41	33	28	37	30	26	33	28	24	30	26	22
9	52	39	31	26	49	37	30	25	34	28	23	31	25	22	28	23	20
10	48	36	28	23	46	34	27	22	31	25	21	28	23	20	26	21	18

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	2.3
10°-20°	424.5	6.5
20°-30°	631.2	9.7
30°-40°	747.5	11.5
40°-50°	772.8	11.8
50°-60°	711.9	10.9
60°-70°	575.5	8.8
70°-80°	385.1	5.9
80°-90°	200.0	3.1
90°-100°	150.9	2.3
100°-110°	198.0	3.0
110°-120°	250.9	3.8
120°-130°	288.8	4.4
130°-140°	302.2	4.6
140°-150°	285.5	4.4
150°-160°	237.5	3.6
160°-170°	157.9	2.4
170°-180°	55.3	0.8
0°-30°	1205.2	18.5
0°-40°	1952.7	29.9
0°-60°	3437.5	52.7
0°-90°	4598.1	70.5
90°-120°	599.8	9.2
90°-150°	1476.2	22.6
90°-180°	1927.0	29.5
0°-180°	6525.0	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°	25	78	134	172	184	19
95°	50	91	148	185	197	47
105°	118	144	194	228	240	125
115°	205	218	259	286	295	203
125°	292	293	324	348	356	261
135°	375	376	387	407	413	289
145°	452	452	453	461	466	282
155°	515	515	516	517	515	237
165°	560	559	560	562	559	158
175°	582	580	580	583	580	55
180°	584	584	584	584	584	

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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°	25.3	78.5	134.3	172.2	184.4
92.5°	35.3	82.5	140.8	178.1	189.9
95°	49.6	90.8	148.1	185.4	197.1
97.5°	64.0	101.7	159.1	194.4	205.7
100°	80.6	113.2	168.6	205.3	215.5
102.5°	98.6	130.3	180.6	216.1	226.8
105°	117.5	144.5	193.8	227.5	239.7
107.5°	138.2	162.2	209.4	241.7	251.0
110°	159.8	180.7	225.4	256.2	266.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.4	198.3	241.9	270.3	280.2
115°	205.1	217.7	258.9	286.4	295.2
117.5°	227.1	235.4	275.0	301.8	310.8
120°	248.9	255.9	291.9	318.3	325.8
122.5°	271.0	273.0	308.4	332.8	340.7
125°	291.9	293.0	324.5	348.4	355.7
127.5°	313.5	313.4	340.1	363.0	371.3
130°	333.9	334.7	357.3	378.6	385.3
132.5°	352.9	357.0	372.0	393.3	398.1
135°	374.7	375.8	387.2	407.3	413.2
137.5°	395.1	396.2	403.4	422.4	426.3
140°	413.1	415.3	418.3	436.2	440.1
142.5°	432.6	432.9	434.7	449.1	453.0
145°	451.7	452.0	453.3	461.0	465.9
147.5°	467.9	469.2	470.1	474.6	474.1
150°	485.6	485.1	487.0	487.0	487.5
152.5°	500.1	501.0	501.5	502.9	501.0
155°	515.1	515.1	515.6	517.4	515.1
157.5°	528.7	527.8	528.3	530.1	526.9
160°	540.6	539.2	539.6	541.5	539.2
162.5°	551.0	550.1	550.1	552.4	549.6
165°	560.1	559.2	559.6	561.5	558.7
167.5°	568.3	566.4	566.4	569.2	566.4
170°	574.6	572.8	572.8	575.5	572.4
172.5°	579.2	577.4	577.4	580.1	577.4
175°	582.3	580.5	580.5	583.3	580.1
177.5°	584.6	582.8	582.3	585.1	581.9
180°	583.7	583.7	583.7	583.7	583.7

(END OF REPORT)