

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: P1028054

Luminaire Tested: S125DIP-B610D1270UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028054
REPORT IS A COMBINATION OF REPORTS P1002233 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

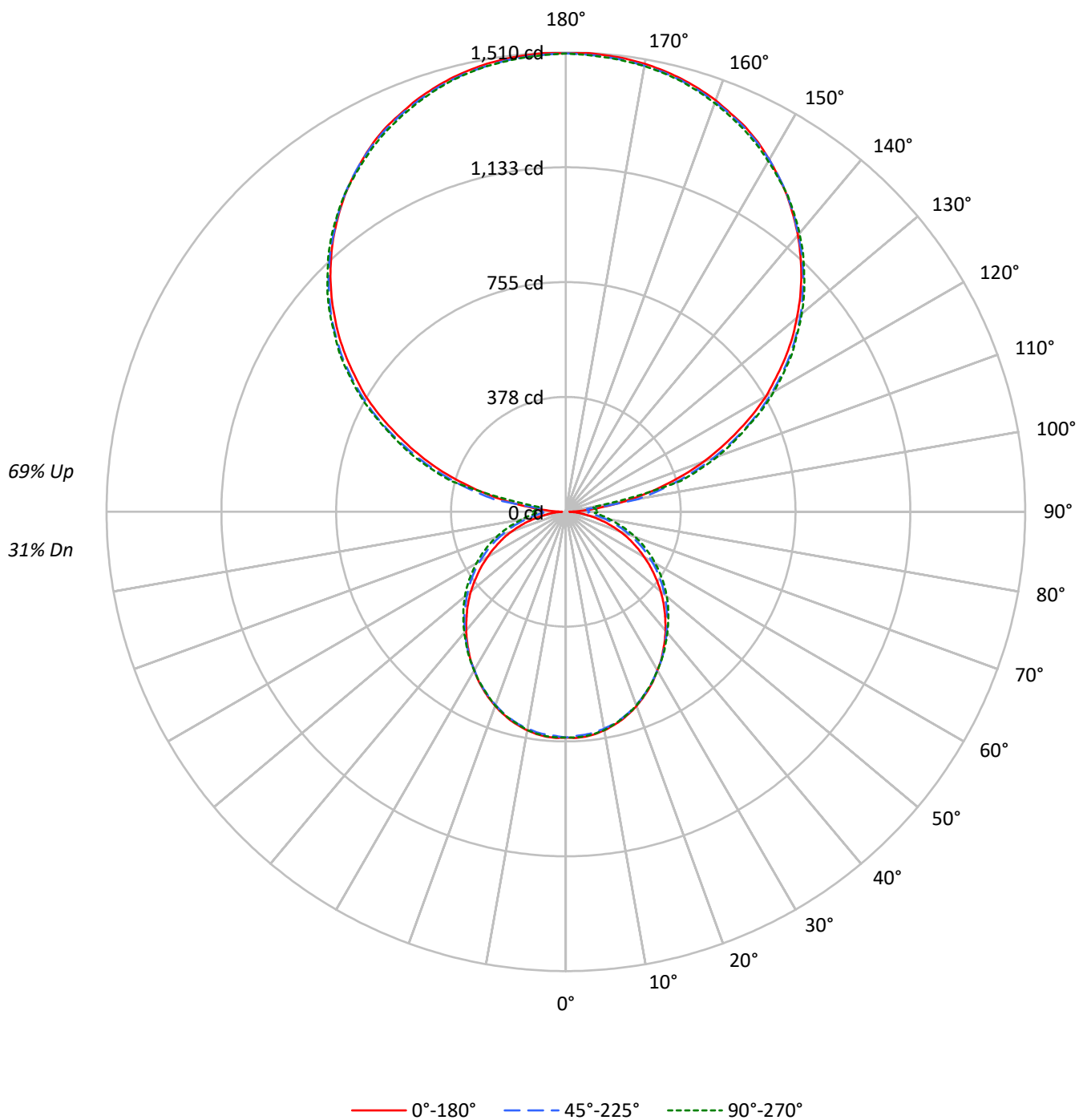
Lumens per Lamp: N/A
Luminaire Lumens: 6929.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (A_{in}): 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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	89	85	81	83	80	76	73	63	61	59	48	46	45	34	33	32
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	29	28	26
3	77	68	60	55	69	61	55	50	48	44	40	37	34	31	26	24	22
4	70	60	52	46	63	54	47	42	43	38	34	32	29	26	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	18	16
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	16	14
7	55	43	35	29	49	39	32	27	31	26	22	24	20	17	17	15	13
8	51	38	31	26	45	35	28	24	28	23	19	22	18	15	16	13	11
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	14	12	10
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.0
10°-20°	199.4	2.9
20°-30°	296.5	4.3
30°-40°	351.1	5.1
40°-50°	363.0	5.2
50°-60°	334.4	4.8
60°-70°	270.3	3.9
70°-80°	180.9	2.6
80°-90°	95.7	1.4
90°-100°	103.8	1.5
100°-110°	378.8	5.5
110°-120°	638.3	9.2
120°-130°	800.6	11.6
130°-140°	851.7	12.3
140°-150°	794.6	11.5
150°-160°	641.7	9.3
160°-170°	415.0	6.0
170°-180°	143.1	2.1
0°-30°	566.0	8.2
0°-40°	917.1	13.2
0°-60°	1614.5	23.3
0°-90°	2161.3	31.2
90°-120°	1120.9	16.2
90°-150°	3567.9	51.5
90°-180°	4768.0	68.8
0°-180°	6929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	13	45	78	100	108	11
95°	73	89	71	93	98	85
105°	335	351	373	387	391	355
115°	621	632	652	660	658	615
125°	880	887	901	908	909	786
135°	1095	1101	1104	1111	1108	844
145°	1268	1270	1270	1274	1271	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.7	45.0	77.6	99.9	108.3
92.5°	31.4	42.5	74.7	96.3	102.5
95°	73.2	88.7	71.0	92.6	97.7
97.5°	128.2	152.4	70.3	87.8	94.1
100°	194.5	213.2	240.9	89.7	89.7
102.5°	261.9	280.2	305.0	321.8	232.4
105°	334.8	351.0	372.8	387.4	391.4
107.5°	410.1	420.3	443.6	459.3	459.2
110°	483.1	491.8	514.4	524.9	531.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.3	562.2	583.0	591.6	594.5
115°	620.9	631.5	651.6	660.2	657.8
117.5°	692.7	696.4	719.0	724.6	727.5
120°	759.7	760.7	780.9	791.0	789.8
122.5°	818.2	824.4	841.6	851.0	848.7
125°	879.6	886.7	901.2	908.4	908.7
127.5°	938.1	942.9	954.1	962.8	958.3
130°	991.7	996.6	1007.8	1014.6	1012.7
132.5°	1044.6	1051.3	1055.1	1065.3	1062.6
135°	1094.8	1100.7	1103.6	1110.9	1107.8
137.5°	1141.7	1147.6	1148.3	1157.1	1154.4
140°	1186.7	1189.0	1188.6	1198.9	1195.1
142.5°	1228.0	1228.5	1230.7	1237.2	1233.5
145°	1268.2	1269.8	1269.8	1274.5	1270.7
147.5°	1303.3	1303.3	1304.4	1307.0	1300.6
150°	1336.8	1334.6	1336.8	1339.0	1330.8
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)