

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: P1028056

Luminaire Tested: S125DIP-B610D1270UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028056
REPORT IS A COMBINATION OF REPORTS P1002235 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

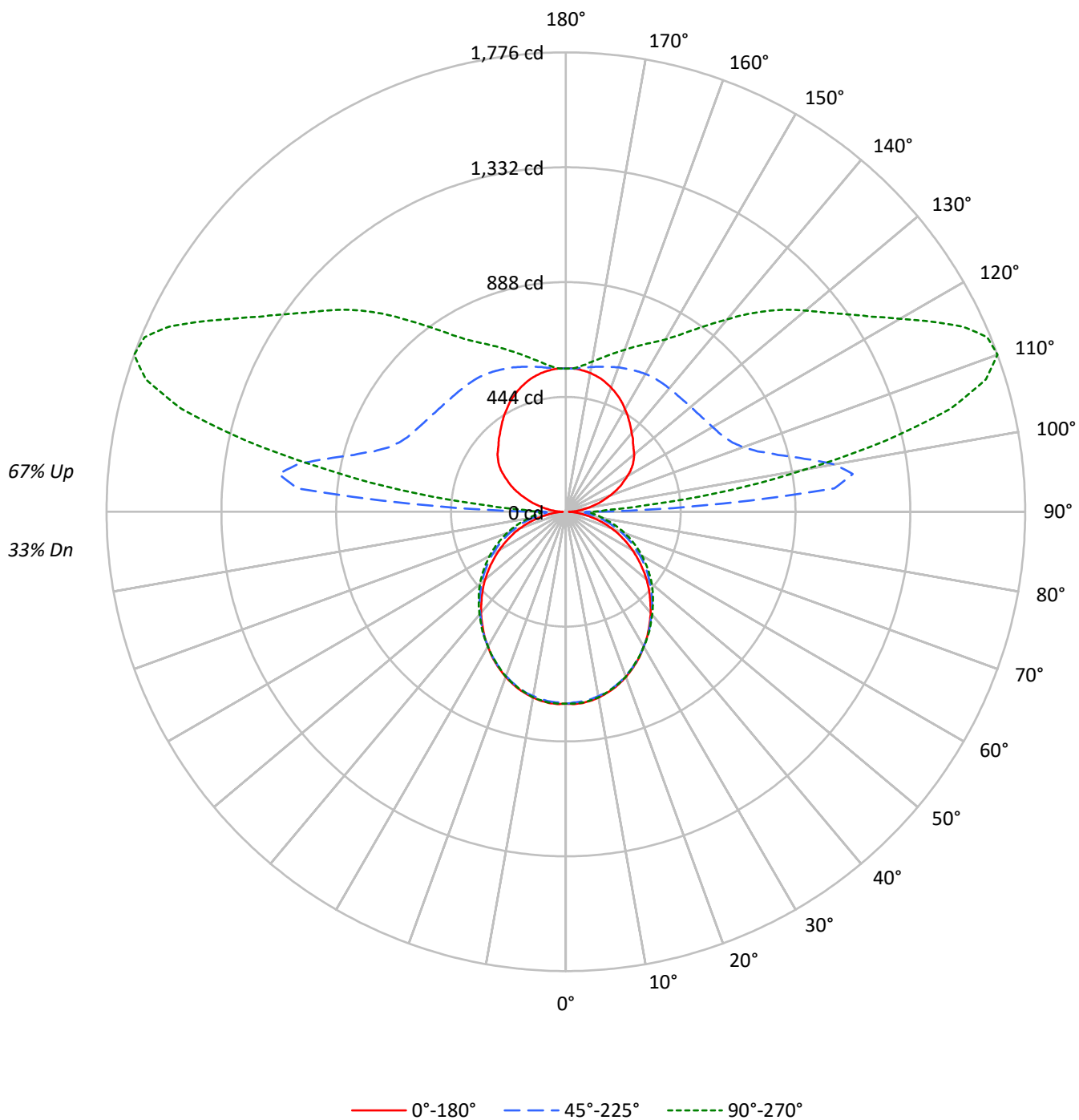
Lumens per Lamp: N/A
Luminaire Lumens: 6469.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	89	85	82	84	80	77	74	64	62	60	49	48	46	35	34	33
2	85	78	71	66	76	70	65	60	56	52	49	43	40	38	31	29	28
3	77	68	61	55	69	61	55	50	49	45	41	38	35	32	27	25	23
4	71	60	52	46	63	54	47	42	43	39	35	33	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	26	23	22	19	17
6	59	48	40	34	53	43	36	31	35	30	26	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	39	31	26	46	35	29	24	29	23	20	22	19	16	16	14	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	1.1
10°-20°	199.4	3.1
20°-30°	296.5	4.6
30°-40°	351.1	5.4
40°-50°	363.0	5.6
50°-60°	334.4	5.2
60°-70°	270.3	4.2
70°-80°	180.9	2.8
80°-90°	95.7	1.5
90°-100°	469.7	7.3
100°-110°	905.1	14.0
110°-120°	835.1	12.9
120°-130°	669.4	10.3
130°-140°	532.5	8.2
140°-150°	398.4	6.2
150°-160°	279.6	4.3
160°-170°	164.8	2.5
170°-180°	53.6	0.8
0°-30°	566.0	8.7
0°-40°	917.1	14.2
0°-60°	1614.5	25.0
0°-90°	2161.3	33.4
90°-120°	2210.0	34.2
90°-150°	3810.3	58.9
90°-180°	4308.0	66.6
0°-180°	6469.5	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	107	11
95°	46	137	1042	518	337	46
105°	133	195	850	1648	1539	140
115°	230	281	678	1442	1694	226
125°	316	368	640	1143	1331	280
135°	368	441	624	949	1098	285
145°	427	488	621	777	857	268
155°	487	524	605	684	714	224
165°	532	546	581	616	625	150
175°	553	553	557	564	562	53
180°	554	554	554	554	554	

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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	107.2
92.5°	26.9	122.9	502.3	191.7	160.5
95°	46.3	137.2	1042.4	518.0	336.6
97.5°	65.6	144.0	1118.8	876.1	645.6
100°	86.2	158.5	1054.9	1207.4	937.1
102.5°	108.9	175.8	945.9	1487.4	1264.1
105°	132.7	194.6	849.5	1648.5	1539.2
107.5°	155.4	215.4	777.4	1692.0	1703.0
110°	180.4	237.1	728.7	1644.2	1776.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.1	259.0	699.0	1548.4	1763.5
115°	230.0	281.4	678.3	1442.2	1693.9
117.5°	251.5	304.3	665.3	1344.8	1591.6
120°	273.8	326.8	655.7	1263.2	1492.0
122.5°	296.6	348.0	647.1	1196.4	1403.5
125°	315.5	368.4	639.8	1142.8	1330.6
127.5°	330.5	389.0	634.6	1095.5	1264.0
130°	345.0	409.0	630.2	1048.5	1210.2
132.5°	355.5	426.9	627.3	998.2	1156.3
135°	367.7	441.2	624.4	949.4	1097.5
137.5°	383.4	455.2	623.3	899.0	1035.9
140°	396.0	466.9	622.3	852.6	971.6
142.5°	411.6	477.4	621.9	812.2	911.7
145°	427.2	488.5	620.8	776.8	857.3
147.5°	443.3	498.6	618.6	746.8	808.0
150°	457.8	507.5	615.2	722.4	768.9
152.5°	473.4	516.4	610.8	702.9	739.2
155°	486.8	523.7	605.2	684.0	713.5
157.5°	499.1	531.0	599.6	666.0	690.1
160°	511.4	536.5	594.0	648.2	666.6
162.5°	521.4	542.1	587.3	632.0	645.4
165°	531.5	546.0	580.6	615.8	625.3
167.5°	538.2	548.2	573.9	600.8	606.3
170°	544.9	551.0	568.3	586.2	589.6
172.5°	549.4	552.2	561.6	574.4	573.9
175°	552.7	552.7	557.2	563.9	561.6
177.5°	554.9	552.7	553.8	557.2	553.8
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)