

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: P1028011

Luminaire Tested: S125DIP-B610D1090UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028011
REPORT IS A COMBINATION OF REPORTS P1002175 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB50-4F0-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

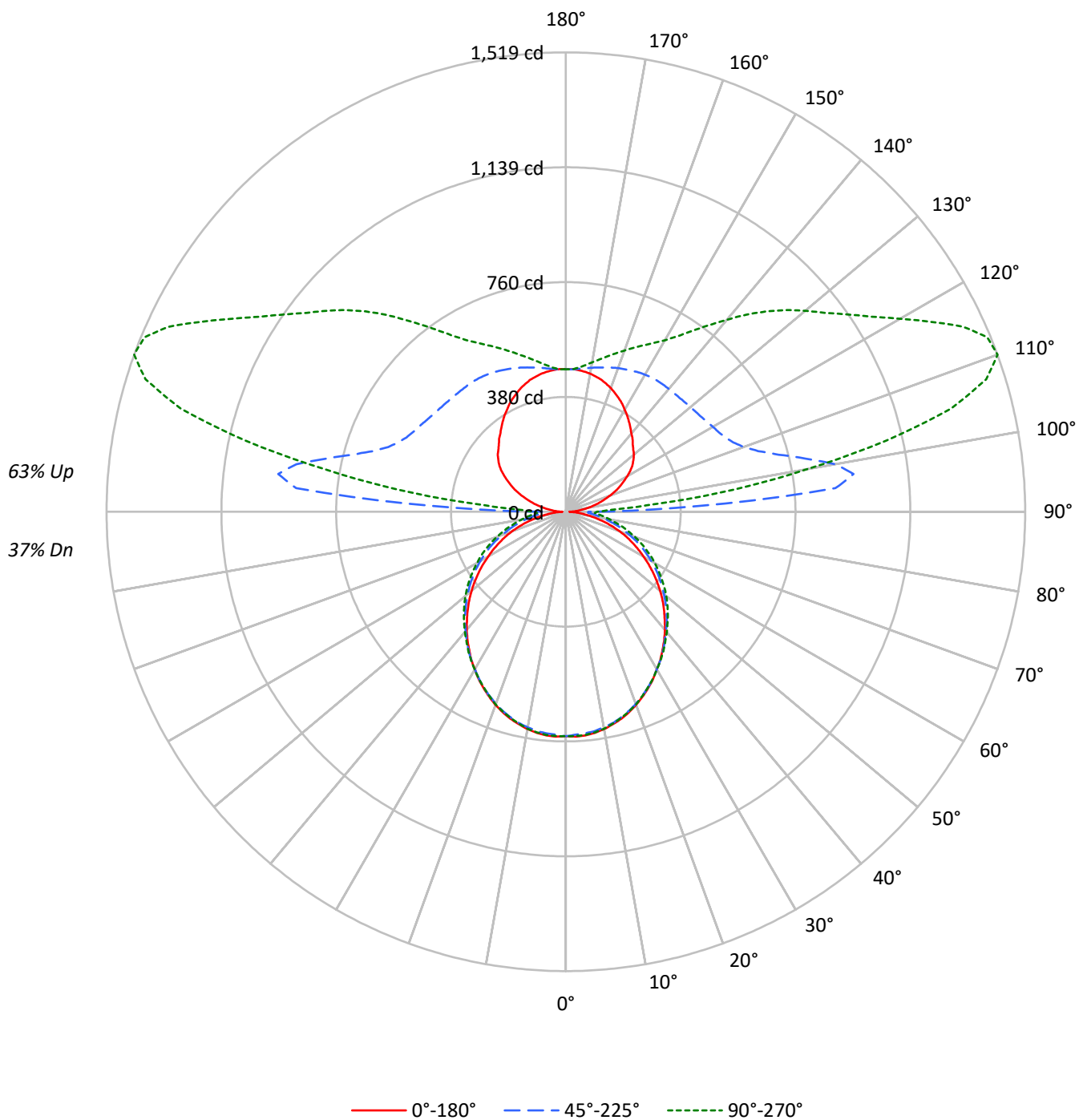
Lumens per Lamp: N/A
Luminaire Lumens: 5848.2 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36
2	86	78	72	67	77	71	66	61	57	53	50	45	42	40	33	32	30
3	78	68	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25
4	71	60	52	46	64	55	48	43	45	39	35	35	31	28	26	24	22
5	65	54	46	40	59	49	42	36	40	34	30	31	27	25	23	21	19
6	60	48	40	34	54	44	37	32	36	30	26	28	24	21	21	18	16
7	55	43	35	30	50	39	32	28	32	27	23	26	22	19	19	17	15
8	51	39	31	26	46	36	29	24	29	24	20	23	19	17	18	15	13
9	48	36	28	23	43	33	26	21	27	22	18	21	18	15	16	14	12
10	44	33	25	21	40	30	23	19	25	20	16	20	16	13	15	12	11

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	1.2
10°-20°	199.4	3.4
20°-30°	296.5	5.1
30°-40°	351.1	6.0
40°-50°	363.0	6.2
50°-60°	334.4	5.7
60°-70°	270.3	4.6
70°-80°	180.9	3.1
80°-90°	95.4	1.6
90°-100°	407.6	7.0
100°-110°	776.1	13.3
110°-120°	714.6	12.2
120°-130°	571.9	9.8
130°-140°	454.1	7.8
140°-150°	339.2	5.8
150°-160°	237.9	4.1
160°-170°	140.2	2.4
170°-180°	45.6	0.8
0°-30°	566.0	9.7
0°-40°	917.1	15.7
0°-60°	1614.5	27.6
0°-90°	2161.0	37.0
90°-120°	1898.3	32.5
90°-150°	3263.5	55.8
90°-180°	3687.0	63.0
0°-180°	5848.2	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	43	75	96	103	10
95°	41	121	895	451	298	40
105°	114	168	729	1411	1319	120
115°	196	241	581	1234	1448	193
125°	269	314	547	977	1137	239
135°	313	376	532	810	937	243
145°	364	416	528	662	731	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

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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°	12.6	43.4	74.9	96.4	103.4
92.5°	24.5	109.2	436.0	174.0	148.2
95°	40.9	121.0	895.0	451.1	297.5
97.5°	57.2	126.4	959.6	755.4	560.0
100°	74.5	138.2	904.7	1036.8	807.4
102.5°	93.8	152.7	811.5	1274.6	1085.1
105°	113.9	168.3	728.9	1411.1	1318.8
107.5°	133.1	185.6	667.1	1447.6	1457.6
110°	154.3	203.9	625.3	1406.4	1519.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.1	222.1	599.6	1324.4	1508.1
115°	196.4	240.9	581.4	1233.6	1448.4
117.5°	214.6	260.1	570.0	1150.0	1360.9
120°	233.6	279.0	561.4	1080.2	1275.6
122.5°	252.8	296.8	553.6	1022.9	1199.8
125°	269.0	313.8	546.9	976.8	1137.1
127.5°	281.6	331.2	542.1	936.0	1080.1
130°	293.9	348.4	538.0	895.6	1033.7
132.5°	302.7	363.5	535.1	852.2	987.3
135°	313.2	375.6	532.2	810.2	936.8
137.5°	326.5	387.5	531.0	766.9	883.8
140°	337.1	397.4	529.8	727.0	828.7
142.5°	350.4	406.2	529.3	692.1	777.3
145°	363.7	415.8	528.3	661.6	730.6
147.5°	377.3	424.3	526.4	635.8	688.0
150°	389.6	431.9	523.6	614.8	654.5
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)