

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: P1028047

Luminaire Tested: S125DIP-B610D1270UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028047
REPORT IS A COMBINATION OF REPORTS P1002226 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

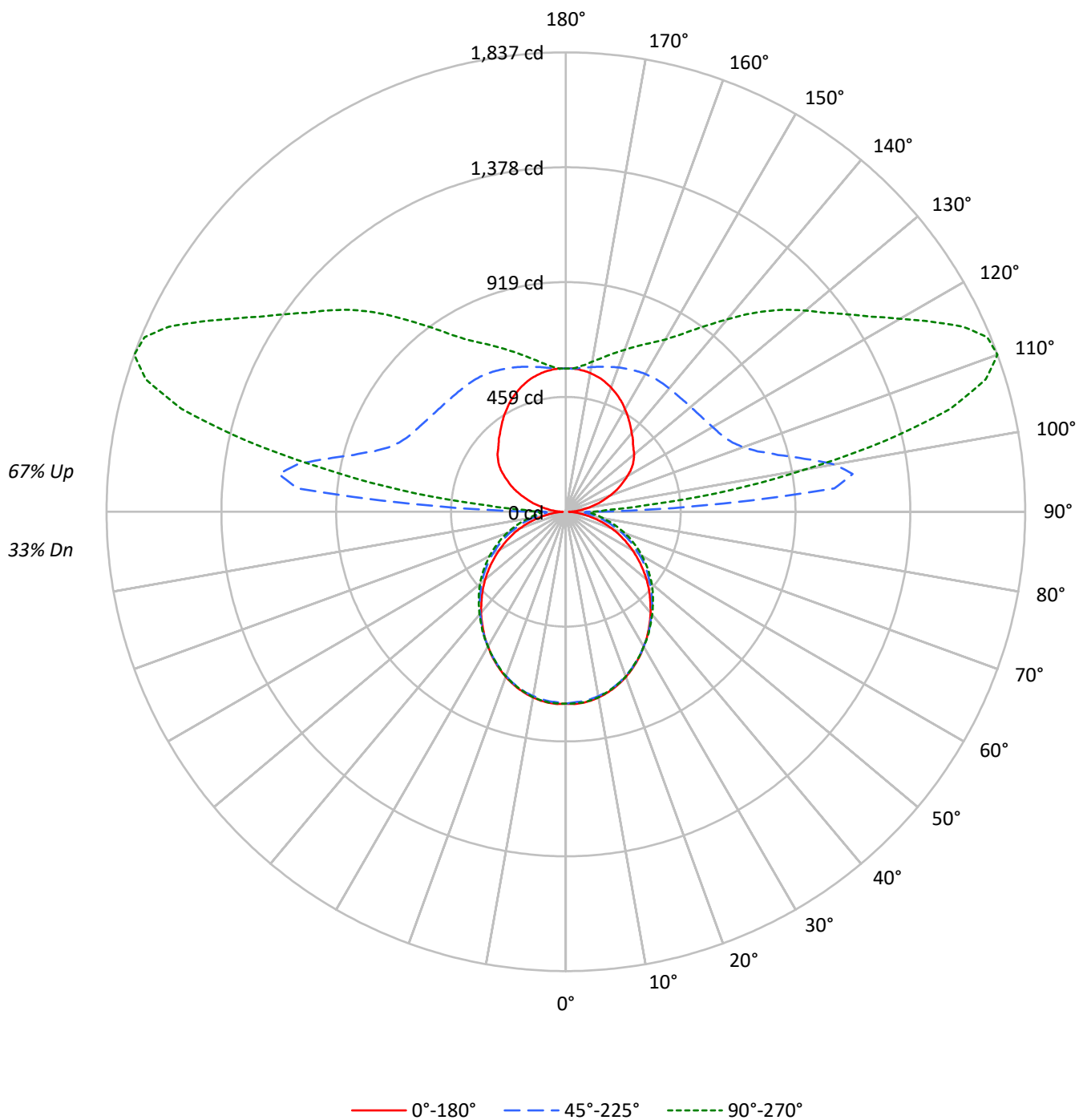
Lumens per Lamp: N/A
Luminaire Lumens: 6689.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		57	57	57		41
1	94	89	85	82	84	80	77	74	64	62	60		49	48	46		35
2	85	78	71	66	76	70	65	60	56	52	49		43	40	38		31
3	77	68	61	55	69	61	55	50	49	45	41		38	35	32		27
4	71	60	52	46	63	54	47	42	43	39	35		33	30	27		24
5	65	53	45	39	58	48	41	36	39	34	30		30	26	23		22
6	59	48	40	34	53	43	36	31	35	30	26		27	23	20		20
7	55	43	35	29	49	39	32	27	31	26	22		24	21	18		18
8	51	39	31	26	46	35	28	24	29	23	20		22	19	16		16
9	47	35	28	23	42	32	26	21	26	21	18		20	17	14		15
10	44	32	25	20	40	29	23	19	24	19	16		19	15	13		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.1
10°-20°	206.1	3.1
20°-30°	306.5	4.6
30°-40°	363.0	5.4
40°-50°	375.3	5.6
50°-60°	345.7	5.2
60°-70°	279.5	4.2
70°-80°	187.0	2.8
80°-90°	99.0	1.5
90°-100°	485.7	7.3
100°-110°	936.0	14.0
110°-120°	863.6	12.9
120°-130°	692.3	10.3
130°-140°	550.7	8.2
140°-150°	412.0	6.2
150°-160°	289.1	4.3
160°-170°	170.4	2.5
170°-180°	55.4	0.8
0°-30°	585.2	8.7
0°-40°	948.2	14.2
0°-60°	1669.2	25.0
0°-90°	2234.7	33.4
90°-120°	2285.3	34.2
90°-150°	3940.2	58.9
90°-180°	4455.0	66.6
0°-180°	6689.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	46	80	103	111	11
95°	48	142	1078	536	348	47
105°	137	201	878	1705	1592	145
115°	238	291	701	1491	1752	234
125°	326	381	662	1182	1376	290
135°	380	456	646	982	1135	295
145°	442	505	642	803	887	277
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	13.2	46.4	80.2	103.2	110.9
92.5°	27.8	127.0	519.4	198.2	165.9
95°	47.9	141.9	1078.0	535.7	348.1
97.5°	67.9	149.0	1156.9	906.0	667.7
100°	89.1	163.8	1090.8	1248.6	969.2
102.5°	112.6	181.8	978.1	1538.2	1307.1
105°	137.3	201.2	878.5	1704.8	1591.7
107.5°	160.7	222.6	804.0	1749.6	1761.1
110°	186.6	245.2	753.6	1700.2	1836.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.1	267.8	722.8	1601.2	1823.6
115°	237.7	291.0	701.3	1491.4	1751.7
117.5°	260.1	314.6	687.9	1390.6	1646.0
120°	283.2	338.0	678.0	1306.2	1542.8
122.5°	306.7	360.0	669.2	1237.2	1451.4
125°	326.3	381.0	661.6	1181.6	1376.0
127.5°	341.8	402.2	656.3	1132.9	1307.2
130°	356.8	423.0	651.7	1084.4	1251.4
132.5°	367.5	441.4	648.7	1032.3	1195.8
135°	380.2	456.3	645.7	981.7	1135.0
137.5°	396.4	470.8	644.7	929.6	1071.2
140°	409.6	482.9	643.5	881.6	1004.7
142.5°	425.7	493.6	643.2	839.9	942.8
145°	441.9	505.2	642.0	803.4	886.7
147.5°	458.4	515.6	639.7	772.2	835.5
150°	473.4	524.8	636.2	747.1	795.2
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)