

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: P1028139

Luminaire Tested: S125DIP-B610D610UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028139
REPORT IS A COMBINATION OF REPORTS P1002348 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

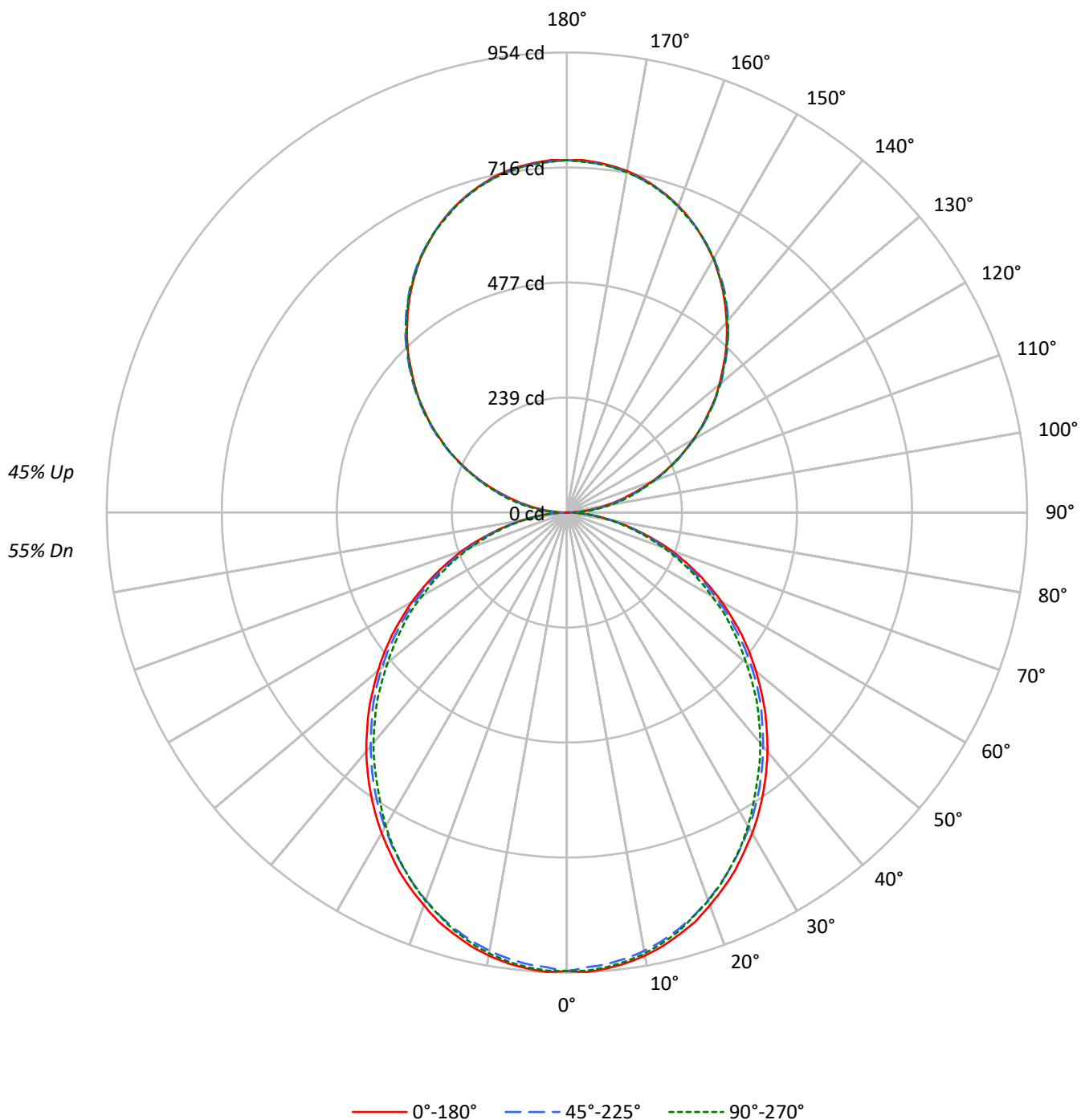
Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	94	90	87	92	88	84	81	75	73	71	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	67	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31
5	69	57	49	43	64	53	46	41	46	40	36	40	35	32	33	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	2.0
10°-20°	253.5	5.6
20°-30°	374.2	8.3
30°-40°	436.6	9.7
40°-50°	438.5	9.7
50°-60°	384.9	8.5
60°-70°	286.7	6.3
70°-80°	163.7	3.6
80°-90°	48.4	1.1
90°-100°	48.6	1.1
100°-110°	144.3	3.2
110°-120°	244.8	5.4
120°-130°	322.2	7.1
130°-140°	361.1	8.0
140°-150°	353.9	7.8
150°-160°	297.3	6.6
160°-170°	197.6	4.4
170°-180°	69.2	1.5
0°-30°	717.4	15.9
0°-40°	1154.0	25.6
0°-60°	1977.3	43.8
0°-90°	2476.2	54.8
90°-120°	437.7	9.7
90°-150°	1474.8	32.7
90°-180°	2039.0	45.2
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	1	5	9	12	14	5
95°	37	38	44	48	49	39
105°	130	132	136	139	141	138
115°	245	247	248	248	247	242
125°	358	361	362	360	360	320
135°	465	468	469	469	467	358
145°	563	566	567	567	566	352
155°	645	645	645	648	645	297
165°	701	700	700	703	699	198
175°	729	727	727	730	726	69
180°	730	730	730	730	730	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	0.6	5.1	9.1	11.9	13.6
92.5°	17.1	19.9	25.0	29.0	30.1
95°	37.0	38.1	43.8	47.8	48.9
97.5°	56.9	57.4	65.4	68.8	69.4
100°	79.6	79.6	87.0	92.1	93.2
102.5°	104.0	106.9	109.7	115.4	117.1
105°	129.6	132.5	135.9	139.3	141.0
107.5°	157.5	160.3	163.2	164.9	164.9
110°	186.5	189.3	191.0	192.7	192.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.0	217.2	219.4	220.0	218.9
115°	245.0	247.3	248.4	247.9	247.3
117.5°	274.6	275.2	276.3	276.9	274.6
120°	301.9	304.7	305.3	305.3	303.0
122.5°	331.4	332.0	333.7	333.1	331.4
125°	357.6	361.0	361.6	360.4	359.9
127.5°	386.6	388.3	388.9	388.3	387.2
130°	412.2	415.0	416.1	415.6	414.4
132.5°	437.8	442.9	442.3	441.7	440.0
135°	465.0	468.5	469.0	469.0	466.7
137.5°	490.6	494.0	495.2	495.7	492.9
140°	515.1	517.9	519.6	520.8	517.9
142.5°	539.5	541.8	544.1	544.6	541.8
145°	563.4	565.7	567.4	567.4	565.7
147.5°	585.6	587.3	588.4	590.1	585.6
150°	607.7	607.2	609.4	609.4	608.3
152.5°	625.9	627.1	627.6	629.3	627.1
155°	644.7	644.7	645.3	647.5	644.7
157.5°	661.7	660.6	661.2	663.5	659.5
160°	676.5	674.8	675.4	677.7	674.8
162.5°	689.6	688.5	688.5	691.3	687.9
165°	701.0	699.8	700.4	702.7	699.3
167.5°	711.2	708.9	708.9	712.3	708.9
170°	719.2	716.9	716.9	720.3	716.3
172.5°	724.8	722.6	722.6	726.0	722.6
175°	728.8	726.6	726.6	730.0	726.0
177.5°	731.7	729.4	728.8	732.2	728.3
180°	730.5	730.5	730.5	730.5	730.5

(END OF REPORT)