

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: P1028050

Luminaire Tested: S125DIP-B610D1270UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028050
REPORT IS A COMBINATION OF REPORTS P1002229 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-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

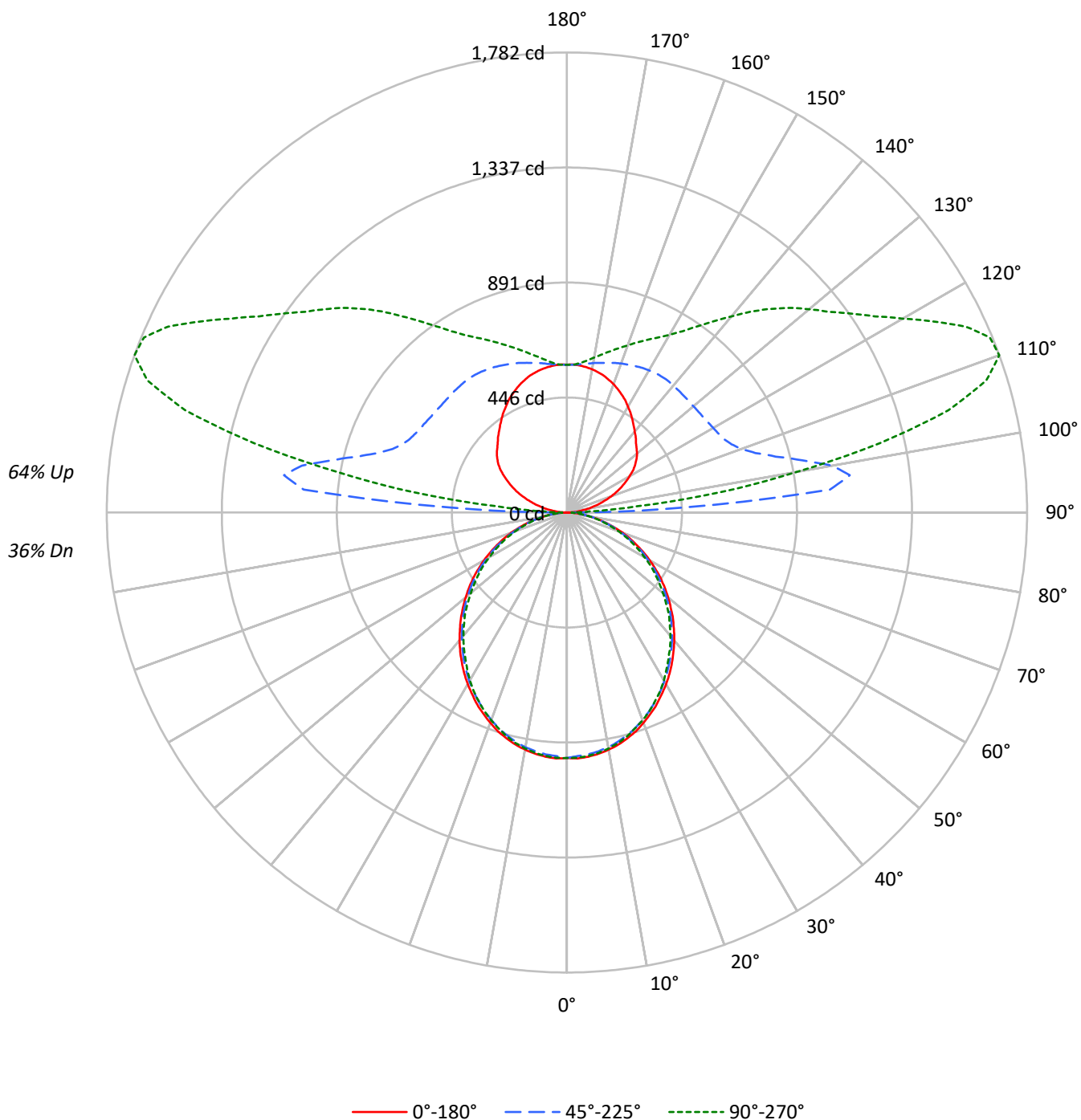
Lumens per Lamp: N/A
Luminaire Lumens: 6787.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36		
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31		
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	26		
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22		
4	72	61	54	48	65	56	49	44	45	40	37	36	32	30	27	25	23	19		
5	66	54	47	41	59	50	43	38	41	35	31	32	28	26	24	22	20	16		
6	61	49	41	35	55	45	38	33	36	31	27	29	25	22	22	19	17	14		
7	56	44	36	31	51	40	33	28	33	28	24	26	22	20	20	17	15	13		
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11		
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10		
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9		

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	1.3
10°-20°	253.5	3.7
20°-30°	374.2	5.5
30°-40°	436.6	6.4
40°-50°	438.5	6.5
50°-60°	384.9	5.7
60°-70°	286.7	4.2
70°-80°	163.7	2.4
80°-90°	49.6	0.7
90°-100°	431.3	6.4
100°-110°	895.9	13.2
110°-120°	836.8	12.3
120°-130°	677.1	10.0
130°-140°	544.0	8.0
140°-150°	410.6	6.0
150°-160°	289.1	4.3
160°-170°	170.4	2.5
170°-180°	55.4	0.8
0°-30°	717.4	10.6
0°-40°	1154.0	17.0
0°-60°	1977.3	29.1
0°-90°	2477.3	36.5
90°-120°	2163.9	31.9
90°-150°	3795.6	55.9
90°-180°	4311.0	63.5
0°-180°	6787.9	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	10	18	24	27	5
95°	38	113	1023	464	271	40
105°	130	182	837	1648	1530	137
115°	233	281	672	1449	1704	230
125°	323	379	644	1152	1343	287
135°	379	456	640	966	1115	294
145°	441	505	642	800	880	276
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°	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°	1.2	10.4	18.5	24.2	26.6
92.5°	17.3	94.7	460.7	123.0	85.4
95°	38.1	112.6	1023.1	464.2	271.4
97.5°	58.9	121.8	1105.0	838.3	594.7
100°	80.8	139.7	1042.7	1184.8	900.7
102.5°	105.1	160.0	933.0	1478.0	1242.4
105°	130.5	182.4	837.1	1648.4	1530.0
107.5°	154.7	206.1	765.6	1696.2	1703.2
110°	181.3	230.9	718.2	1650.6	1781.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.8	255.8	690.5	1555.4	1772.4
115°	233.2	281.2	672.0	1448.6	1704.3
117.5°	256.3	307.2	661.6	1351.6	1601.6
120°	279.4	332.0	654.7	1270.2	1502.2
122.5°	303.7	356.2	648.9	1205.0	1414.5
125°	323.3	378.7	644.3	1152.4	1342.9
127.5°	339.5	400.7	642.0	1107.4	1277.1
130°	354.5	421.4	639.7	1061.8	1225.1
132.5°	366.0	439.9	639.7	1012.7	1173.2
135°	378.7	455.5	639.7	965.9	1115.4
137.5°	394.9	470.0	640.9	916.8	1055.4
140°	408.8	482.1	642.0	871.8	991.9
142.5°	424.9	493.6	643.2	833.1	933.0
145°	441.1	505.2	642.0	799.6	879.9
147.5°	458.4	515.6	639.7	770.8	832.5
150°	473.4	524.8	636.2	747.1	794.4
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)