

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: P1028138

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028138
REPORT IS A COMBINATION OF REPORTS P1002347 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-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

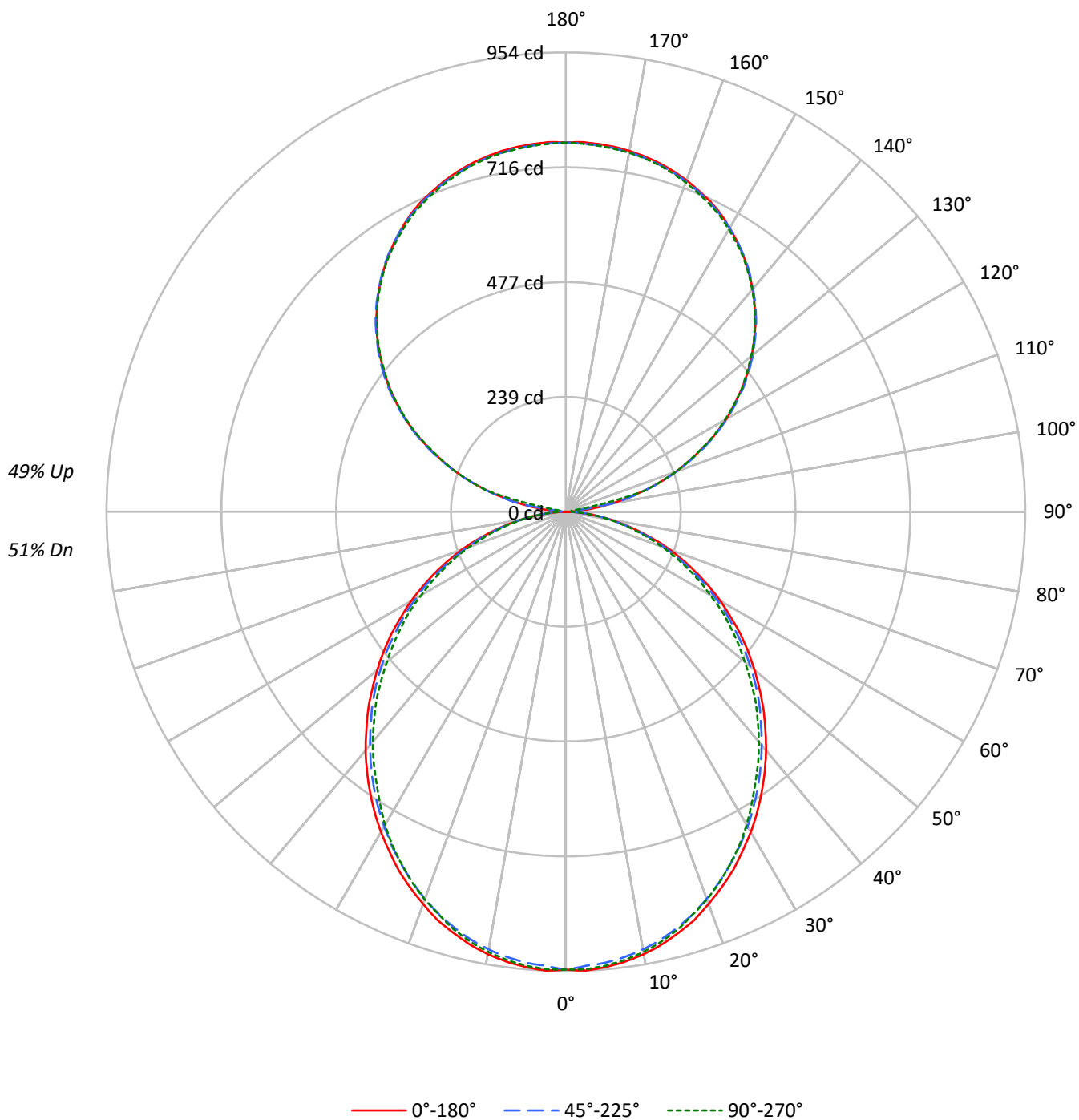
Lumens per Lamp: N/A
Luminaire Lumens: 4832.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	49	48	48	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	41	41	41	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	35	35	35	30
4	74	64	56	50	68	59	52	47	50	45	41	43	38	35	35	32	30	30	30	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	32	28	26	26	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	23	23	20
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20	20	20	18
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	18	18	16
9	50	38	30	25	46	36	29	24	31	25	21	26	22	19	22	19	16	16	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	15	15	13

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	1.9
10°-20°	253.5	5.2
20°-30°	374.2	7.7
30°-40°	436.6	9.0
40°-50°	438.5	9.1
50°-60°	384.9	8.0
60°-70°	286.7	5.9
70°-80°	163.7	3.4
80°-90°	48.4	1.0
90°-100°	26.0	0.5
100°-110°	173.1	3.6
110°-120°	311.7	6.5
120°-130°	400.1	8.3
130°-140°	430.3	8.9
140°-150°	403.9	8.4
150°-160°	326.7	6.8
160°-170°	211.3	4.4
170°-180°	72.9	1.5
0°-30°	717.4	14.8
0°-40°	1154.0	23.9
0°-60°	1977.3	40.9
0°-90°	2476.2	51.2
90°-120°	510.8	10.6
90°-150°	1745.0	36.1
90°-180°	2356.0	48.8
0°-180°	4832.0	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	4
95°	32	31	9	12	12	40
105°	167	169	169	169	169	177
115°	314	317	317	315	312	311
125°	446	450	450	448	446	399
135°	557	560	559	558	554	429
145°	645	646	646	647	644	404
155°	711	707	708	710	706	327
165°	750	746	747	750	746	212
175°	767	764	764	769	764	73
180°	767	767	767	767	767	

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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°	10.8	5.7	9.1	11.9	12.5
95°	32.4	30.7	9.1	11.9	11.9
97.5°	60.8	64.2	10.2	11.4	11.9
100°	94.9	96.6	98.9	14.2	11.9
102.5°	129.6	131.9	133.0	134.2	86.4
105°	167.1	169.4	169.4	169.4	168.9
107.5°	205.8	205.8	206.9	207.5	205.2
110°	243.3	243.3	244.5	242.8	243.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.6	280.3	280.8	278.6	277.4
115°	313.8	316.7	317.2	315.0	311.5
117.5°	350.8	350.8	353.1	349.6	348.5
120°	384.9	384.3	386.0	384.9	382.0
122.5°	415.0	417.9	418.4	417.3	413.9
125°	446.3	450.3	450.3	448.0	446.3
127.5°	476.4	479.3	478.7	477.6	473.0
130°	503.7	506.6	507.1	505.4	502.6
132.5°	531.0	534.4	532.7	532.7	529.9
135°	556.6	560.0	558.9	557.7	554.3
137.5°	580.5	583.9	582.7	582.7	579.9
140°	603.8	604.9	604.3	605.5	602.1
142.5°	624.8	625.4	626.5	626.5	623.1
145°	645.3	646.4	646.4	647.0	643.6
147.5°	663.5	663.5	664.0	664.6	660.6
150°	680.5	679.4	680.5	681.7	677.1
152.5°	697.0	694.2	695.3	696.4	692.5
155°	710.7	707.2	708.4	710.1	705.5
157.5°	721.5	719.7	719.7	721.5	716.9
160°	732.8	729.4	730.0	732.3	727.7
162.5°	741.9	738.5	739.1	742.5	737.4
165°	749.9	746.5	747.0	750.4	745.9
167.5°	756.1	752.7	753.3	757.3	752.2
170°	761.2	757.3	757.8	762.4	757.3
172.5°	764.7	760.7	761.8	765.8	760.7
175°	766.9	763.5	764.1	768.6	763.5
177.5°	768.6	765.2	765.8	769.8	765.2
180°	766.9	766.9	766.9	766.9	766.9

(END OF REPORT)