

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: P1027239

Luminaire Tested: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027239
REPORT IS A COMBINATION OF REPORTS P1005650 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

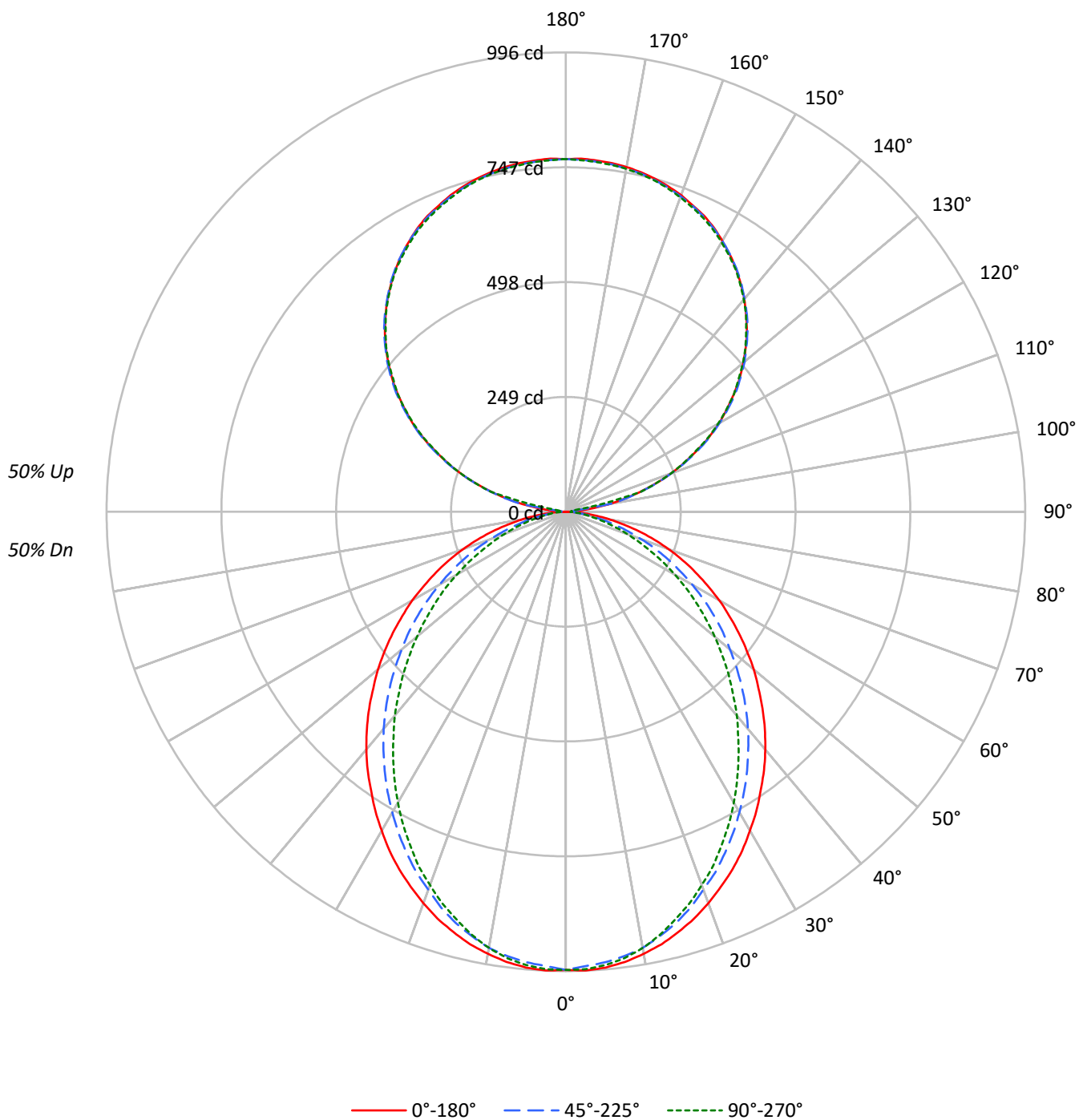
Lumens per Lamp: N/A
Luminaire Lumens: 4697.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 120
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	83	83	83	69	69	69	56	56	56	56	56	56
1	98	94	90	87	90	87	83	80	73	71	69	61	60	58	50	49	48	48	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	41	41	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	42	39	37	35	35	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	30	30	27
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	26	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	23	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	21	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	19	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	17	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6365	6365	6365
5°	6366	6206	6216
10°	6303	6050	5997
15°	6214	5831	5707
20°	6103	5567	5404
25°	5977	5310	5080
30°	5822	5027	4738
35°	5664	4740	4376
40°	5513	4446	4022
45°	5332	4127	3651
50°	5149	3789	3274
55°	4936	3456	2883
60°	4718	3076	2478
65°	4459	2651	2040
70°	4156	2158	1606
75°	3738	1622	1171
80°	3151	1050	790
85°	2361	564	444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	2.0
10°-20°	261.3	5.6
20°-30°	378.8	8.1
30°-40°	431.6	9.2
40°-50°	420.7	9.0
50°-60°	354.1	7.5
60°-70°	248.1	5.3
70°-80°	127.2	2.7
80°-90°	32.9	0.7
90°-100°	26.0	0.6
100°-110°	172.6	3.7
110°-120°	310.8	6.6
120°-130°	398.9	8.5
130°-140°	429.0	9.1
140°-150°	402.7	8.6
150°-160°	325.7	6.9
160°-170°	210.6	4.5
170°-180°	72.6	1.5
0°-30°	733.6	15.6
0°-40°	1165.2	24.8
0°-60°	1940.0	41.3
0°-90°	2348.2	50.0
90°-120°	509.3	10.8
90°-150°	1739.8	37.0
90°-180°	2349.0	50.0
0°-180°	4697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	989	981	988	987	94
15°	943	939	923	922	915	266
25°	855	844	816	807	798	394
35°	737	719	685	663	653	461
45°	603	582	540	510	499	465
55°	458	434	392	358	346	409
65°	310	284	245	215	203	307
75°	165	143	111	94	89	174
85°	41	28	24	23	22	45
90°	1	5	9	12	14	4
95°	32	31	9	12	12	40
105°	167	169	169	169	168	177
115°	313	316	316	314	311	310
125°	445	449	449	447	445	397
135°	555	558	557	556	553	428
145°	643	644	644	645	642	402
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	995.6	993.4	985.9	993.4	992.6
5°	991.9	988.9	980.6	988.1	986.6
7.5°	984.4	981.4	971.6	977.6	976.1
10°	973.1	970.9	960.4	962.6	960.4
12.5°	960.4	957.4	942.4	943.9	940.1
15°	943.1	938.6	922.9	922.1	915.3
17.5°	925.1	918.3	899.6	895.8	890.6
20°	903.3	895.8	871.8	868.1	861.3
22.5°	879.3	871.8	846.3	838.1	832.8
25°	855.3	844.1	816.3	806.6	798.3
27.5°	828.3	814.8	785.5	772.8	764.5
30°	798.3	784.0	752.5	735.3	728.5
32.5°	769.0	751.8	719.5	700.0	691.0
35°	736.8	718.8	685.0	663.3	652.7
37.5°	706.0	684.3	649.7	624.2	613.7
40°	673.0	650.5	614.5	586.0	577.0
42.5°	638.5	615.2	577.7	550.7	536.5
45°	603.2	581.5	540.2	510.2	498.9
47.5°	566.5	544.0	502.7	471.9	459.2
50°	532.0	507.2	464.4	432.9	421.7
52.5°	494.4	468.9	429.2	394.7	383.4
55°	457.7	433.7	391.6	357.9	345.9
57.5°	420.2	394.7	354.1	321.1	310.6
60°	384.1	357.9	317.4	284.4	273.1
62.5°	345.9	321.1	279.9	249.8	238.6
65°	309.9	284.4	244.6	214.6	203.3
67.5°	273.9	248.3	210.1	181.6	172.6
70°	237.1	211.6	174.1	150.8	141.8
72.5°	201.1	176.3	141.8	120.8	115.5
75°	165.1	142.6	111.0	94.5	89.3
77.5°	128.3	110.3	84.0	71.3	66.8
80°	97.5	79.5	58.5	51.8	50.3
82.5°	67.5	51.8	39.0	36.8	36.0
85°	41.3	27.8	24.0	23.3	22.5
87.5°	17.3	12.0	11.3	11.3	10.5
90°	0.6	5.1	9.1	11.9	13.6
92.5°	10.8	5.7	9.1	11.9	12.5
95°	32.3	30.6	9.1	11.9	11.9
97.5°	60.7	64.1	10.2	11.3	11.9
100°	94.7	96.4	98.6	14.2	11.9
102.5°	129.2	131.5	132.6	133.8	86.2
105°	166.6	168.9	168.9	168.9	168.3
107.5°	205.2	205.2	206.3	206.9	204.6
110°	242.6	242.6	243.7	242.0	242.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	277.7	279.4	280.0	277.7	276.6
115°	312.9	315.7	316.3	314.0	310.6
117.5°	349.7	349.7	352.0	348.6	347.5
120°	383.7	383.2	384.9	383.7	380.9
122.5°	413.8	416.6	417.2	416.1	412.7
125°	445.0	448.9	448.9	446.7	445.0
127.5°	475.0	477.8	477.3	476.1	471.6
130°	502.2	505.0	505.6	503.9	501.1
132.5°	529.4	532.8	531.1	531.1	528.3
135°	554.9	558.3	557.2	556.1	552.7
137.5°	578.7	582.1	581.0	581.0	578.2
140°	602.0	603.1	602.5	603.7	600.3
142.5°	622.9	623.5	624.6	624.6	621.2
145°	643.4	644.5	644.5	645.1	641.7
147.5°	661.5	661.5	662.1	662.6	658.7
150°	678.5	677.4	678.5	679.6	675.1
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)