

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: P1027975

Luminaire Tested: S125DIP-B610D1090UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027975
REPORT IS A COMBINATION OF REPORTS P1002124 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

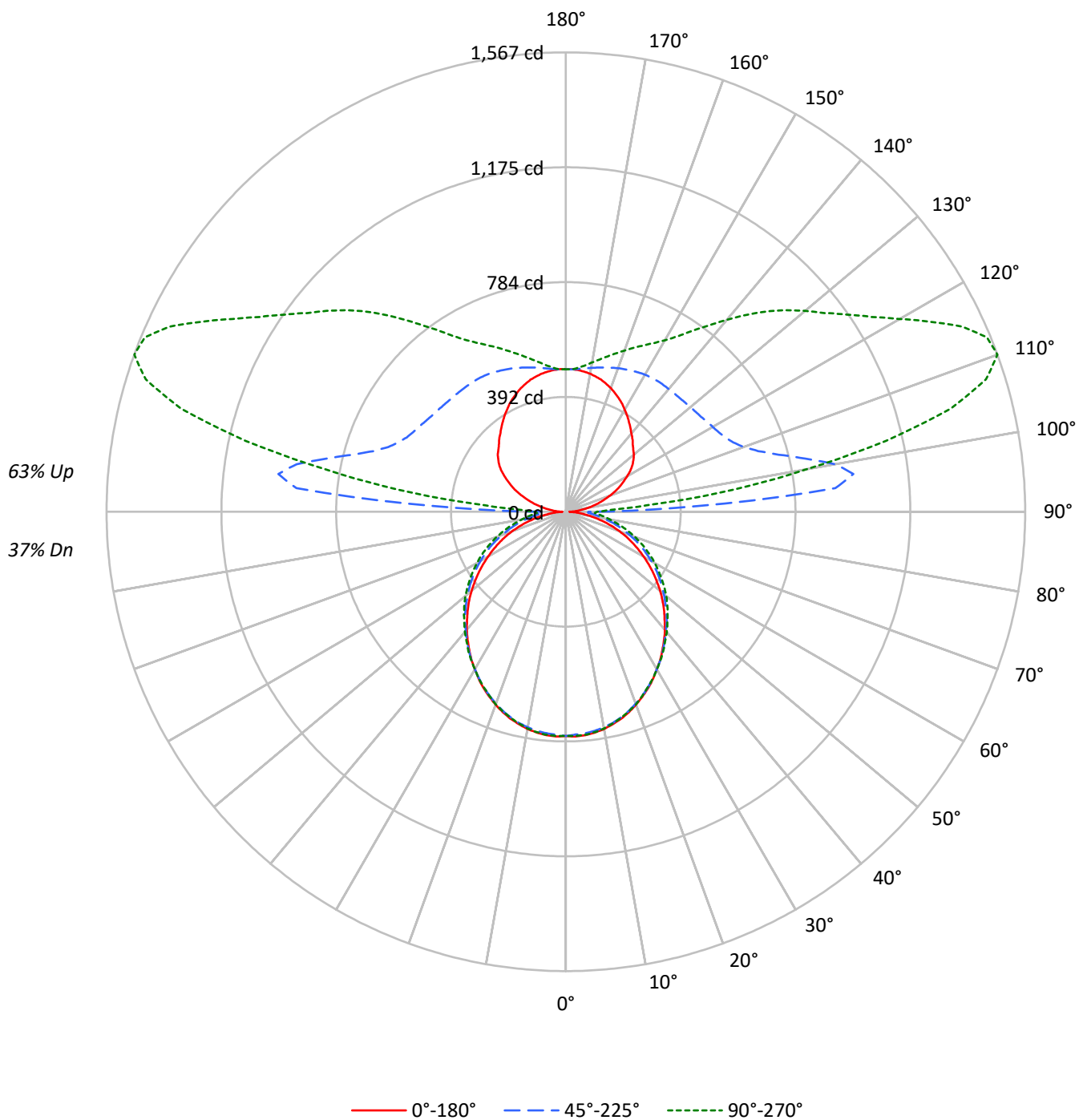
Lumens per Lamp: N/A
Luminaire Lumens: 6029.6 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36
2	86	78	72	67	77	71	66	61	57	53	50	45	42	40	33	32	30
3	78	68	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25
4	71	60	52	46	64	55	48	43	45	39	35	35	31	28	26	24	22
5	65	54	46	40	59	49	42	36	40	34	30	31	27	25	23	21	19
6	60	48	40	34	54	44	37	32	36	30	26	28	24	21	21	18	16
7	55	43	35	30	50	39	32	28	32	27	23	26	22	19	19	17	15
8	51	39	31	26	46	36	29	24	29	24	20	23	19	17	18	15	13
9	48	36	28	23	43	33	26	21	27	22	18	21	18	15	16	14	12
10	44	33	25	21	40	30	23	19	25	20	16	20	16	13	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.2
10°-20°	205.5	3.4
20°-30°	305.6	5.1
30°-40°	361.9	6.0
40°-50°	374.2	6.2
50°-60°	344.7	5.7
60°-70°	278.7	4.6
70°-80°	186.5	3.1
80°-90°	98.3	1.6
90°-100°	420.3	7.0
100°-110°	800.2	13.3
110°-120°	736.8	12.2
120°-130°	589.7	9.8
130°-140°	468.3	7.8
140°-150°	349.8	5.8
150°-160°	245.3	4.1
160°-170°	144.6	2.4
170°-180°	47.0	0.8
0°-30°	583.5	9.7
0°-40°	945.4	15.7
0°-60°	1664.3	27.6
0°-90°	2227.7	36.9
90°-120°	1957.3	32.5
90°-150°	3365.0	55.8
90°-180°	3802.0	63.1
0°-180°	6029.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	13	45	77	99	106	11
95°	42	125	923	465	307	41
105°	118	174	752	1455	1360	124
115°	202	248	600	1272	1493	199
125°	277	324	564	1007	1172	246
135°	323	387	549	835	966	251
145°	375	429	545	682	753	235
155°	427	460	531	600	626	197
165°	466	479	510	540	549	131
175°	485	485	489	495	493	46
180°	486	486	486	486	486	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	13.0	44.8	77.2	99.4	106.5
92.5°	25.2	112.6	449.4	179.4	152.8
95°	42.1	124.8	922.9	465.2	306.7
97.5°	59.0	130.4	989.4	778.8	577.4
100°	76.9	142.6	932.7	1069.0	832.5
102.5°	96.7	157.5	836.7	1314.1	1118.7
105°	117.5	173.6	751.6	1454.9	1359.7
107.5°	137.3	191.4	687.9	1492.6	1503.0
110°	159.1	210.2	644.7	1450.1	1566.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.7	229.0	618.2	1365.6	1554.9
115°	202.4	248.4	599.5	1271.9	1493.4
117.5°	221.3	268.2	587.7	1185.8	1403.2
120°	240.9	287.6	578.8	1113.8	1315.2
122.5°	260.7	306.0	570.9	1054.7	1237.0
125°	277.3	323.7	564.0	1007.1	1172.5
127.5°	290.4	341.4	559.1	965.1	1113.6
130°	303.1	359.2	554.8	923.4	1065.8
132.5°	312.1	374.8	551.8	878.8	1017.9
135°	322.9	387.3	548.8	835.4	966.0
137.5°	336.6	399.6	547.6	790.7	911.3
140°	347.6	409.8	546.3	749.5	854.4
142.5°	361.4	418.8	545.7	713.7	801.5
145°	375.1	428.6	544.8	682.3	753.4
147.5°	389.0	437.5	542.8	655.5	709.4
150°	401.7	445.3	539.9	633.9	674.9
152.5°	415.4	453.2	535.9	616.8	648.6
155°	427.2	459.6	531.0	600.1	626.1
157.5°	438.0	465.9	526.1	584.4	605.5
160°	448.7	470.8	521.2	568.8	584.9
162.5°	457.6	475.6	515.4	554.6	566.3
165°	466.4	479.1	509.5	540.3	548.7
167.5°	472.2	481.0	503.6	527.2	532.0
170°	478.1	483.5	498.7	514.4	517.3
172.5°	482.0	484.5	492.8	504.1	503.6
175°	485.0	485.0	488.9	494.8	492.8
177.5°	486.9	485.0	486.0	488.9	486.0
180°	486.0	486.0	486.0	486.0	486.0

(END OF REPORT)