

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: P1028002

Luminaire Tested: S125DIP-B610D1090UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028002
REPORT IS A COMBINATION OF REPORTS P1002166 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

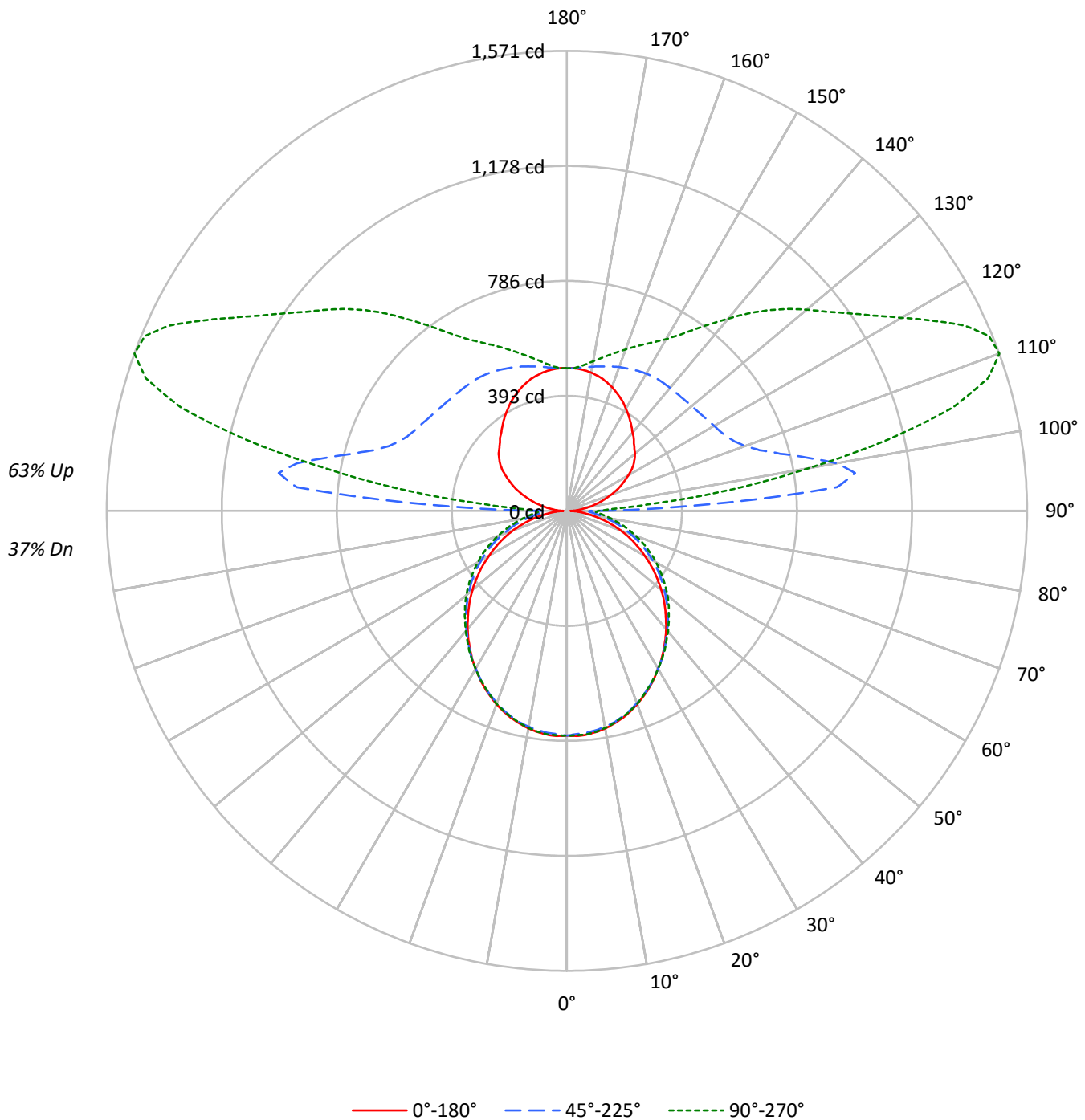
Lumens per Lamp: N/A
Luminaire Lumens: 6047.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.2
10°-20°	206.1	3.4
20°-30°	306.5	5.1
30°-40°	363.0	6.0
40°-50°	375.3	6.2
50°-60°	345.7	5.7
60°-70°	279.5	4.6
70°-80°	187.0	3.1
80°-90°	98.6	1.6
90°-100°	421.5	7.0
100°-110°	802.5	13.3
110°-120°	739.0	12.2
120°-130°	591.5	9.8
130°-140°	469.6	7.8
140°-150°	350.8	5.8
150°-160°	246.1	4.1
160°-170°	145.0	2.4
170°-180°	47.2	0.8
0°-30°	585.2	9.7
0°-40°	948.2	15.7
0°-60°	1669.2	27.6
0°-90°	2234.3	36.9
90°-120°	1963.0	32.5
90°-150°	3374.9	55.8
90°-180°	3813.0	63.1
0°-180°	6047.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	45	77	100	107	11
95°	42	125	926	467	308	41
105°	118	174	754	1459	1364	124
115°	203	249	601	1276	1498	200
125°	278	325	566	1010	1176	247
135°	324	388	550	838	969	251
145°	376	430	546	684	756	236
155°	428	461	533	602	628	197
165°	468	481	511	542	550	132
175°	486	486	490	496	494	46
180°	487	487	487	487	487	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	13.0	45.0	77.4	99.6	106.9
92.5°	25.2	112.9	450.8	179.9	153.2
95°	42.2	125.1	925.6	466.6	307.6
97.5°	59.1	130.8	992.4	781.2	579.1
100°	77.1	143.0	935.5	1072.2	835.0
102.5°	96.9	158.0	839.1	1318.0	1122.1
105°	117.8	174.0	753.9	1459.2	1363.8
107.5°	137.7	191.9	689.9	1497.0	1507.4
110°	159.6	210.8	646.7	1454.4	1571.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	229.7	620.0	1369.6	1559.7
115°	203.0	249.1	601.2	1275.8	1497.9
117.5°	222.0	268.9	589.4	1189.4	1407.4
120°	241.6	288.5	580.5	1117.0	1319.1
122.5°	261.5	307.0	572.6	1057.8	1240.7
125°	278.2	324.7	565.7	1010.0	1176.0
127.5°	291.2	342.5	560.7	968.0	1117.0
130°	304.0	360.2	556.4	926.2	1069.0
132.5°	313.0	375.9	553.4	881.4	1021.0
135°	323.8	388.4	550.4	837.8	968.9
137.5°	337.6	400.8	549.2	793.0	914.0
140°	348.7	411.1	547.9	751.8	857.0
142.5°	362.4	420.1	547.4	715.8	803.8
145°	376.2	429.9	546.4	684.3	755.6
147.5°	390.1	438.8	544.4	657.4	711.5
150°	402.9	446.6	541.5	635.8	676.9
152.5°	416.7	454.5	537.5	618.6	650.6
155°	428.5	460.9	532.6	601.9	628.0
157.5°	439.3	467.3	527.7	586.2	607.3
160°	450.1	472.2	522.8	570.4	586.7
162.5°	458.9	477.1	516.9	556.2	568.0
165°	467.8	480.6	511.0	542.0	550.3
167.5°	473.7	482.5	505.1	528.7	533.6
170°	479.6	485.0	500.2	515.9	518.9
172.5°	483.5	486.0	494.3	505.6	505.1
175°	486.4	486.4	490.4	496.3	494.3
177.5°	488.4	486.4	487.4	490.4	487.4
180°	487.4	487.4	487.4	487.4	487.4

(END OF REPORT)