

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: P1028090

Luminaire Tested: S125DIP-B610D375UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028090
REPORT IS A COMBINATION OF REPORTS P1002284 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

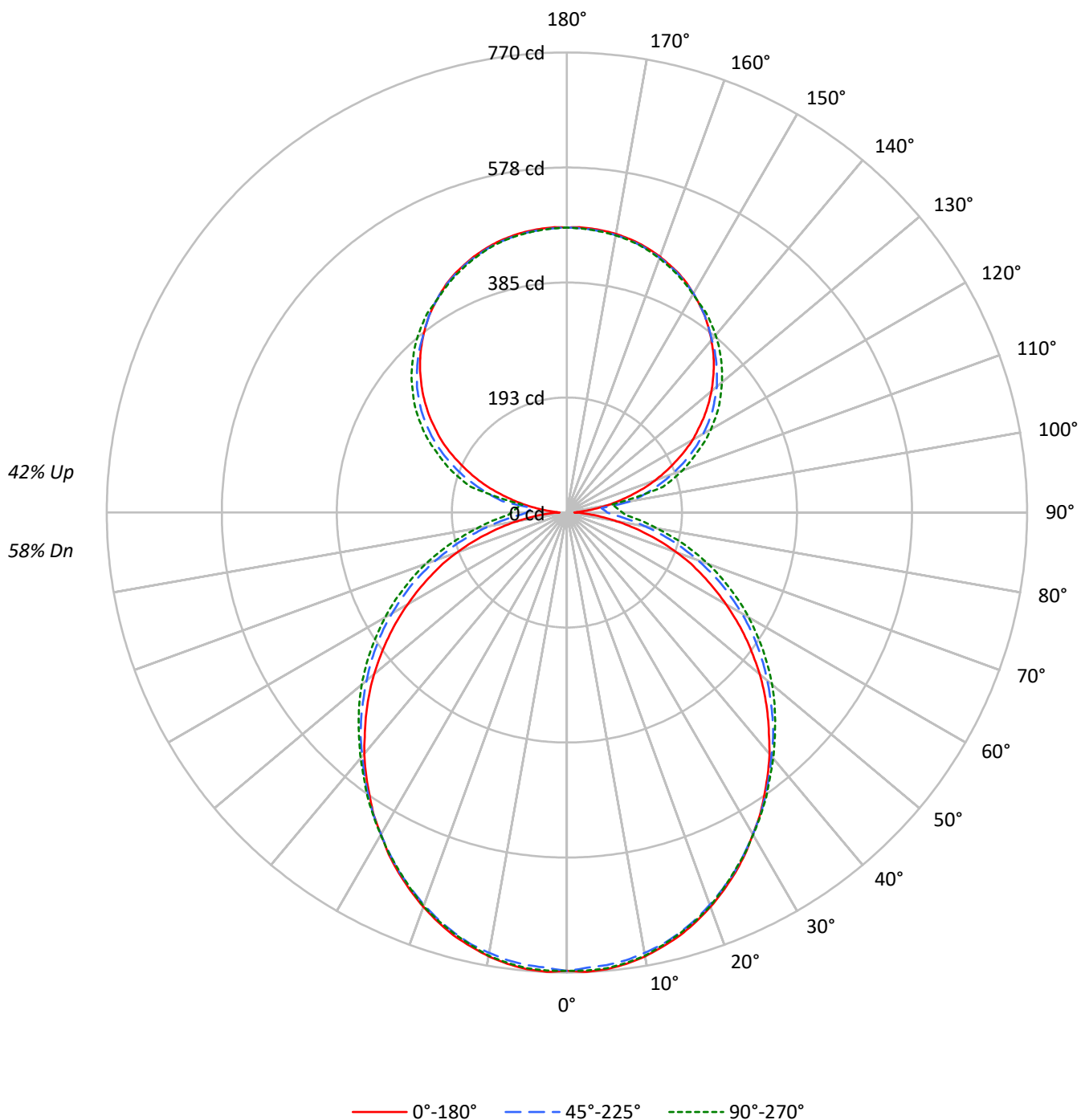
Lumens per Lamp: N/A
Luminaire Lumens: 3843.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43
3	82	71	64	57	76	67	60	54	58	53	48	50	46	42	42	39	36
4	74	63	55	48	69	59	52	46	51	45	41	44	40	36	37	34	31
5	68	56	48	41	63	53	45	39	46	40	35	40	35	31	34	30	27
6	63	50	42	36	58	47	40	34	41	35	31	36	31	27	30	27	24
7	58	45	37	31	54	43	35	30	37	31	27	32	28	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	26	22	19
9	50	38	30	25	47	35	28	24	31	25	21	27	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15

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	1.9
10°-20°	206.1	5.4
20°-30°	306.5	8.0
30°-40°	363.0	9.4
40°-50°	375.3	9.8
50°-60°	345.7	9.0
60°-70°	279.5	7.3
70°-80°	187.0	4.9
80°-90°	97.4	2.5
90°-100°	70.6	1.8
100°-110°	147.8	3.8
110°-120°	220.7	5.7
120°-130°	264.1	6.9
130°-140°	274.3	7.1
140°-150°	252.5	6.6
150°-160°	203.2	5.3
160°-170°	131.4	3.4
170°-180°	45.3	1.2
0°-30°	585.2	15.2
0°-40°	948.2	24.7
0°-60°	1669.2	43.4
0°-90°	2233.1	58.1
90°-120°	439.2	11.4
90°-150°	1230.0	32.0
90°-180°	1610.0	41.9
0°-180°	3843.1	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°	12	39	67	86	93	9
95°	30	48	61	79	84	32
105°	111	124	147	162	167	117
115°	200	207	227	239	241	198
125°	281	282	297	308	311	251
135°	348	349	354	363	364	268
145°	402	402	402	406	407	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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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°	12.4	39.3	67.4	86.4	92.8
92.5°	17.2	35.8	64.4	82.6	88.3
95°	30.0	48.4	60.6	78.9	84.1
97.5°	46.8	67.1	58.3	74.8	80.4
100°	67.4	84.2	109.6	72.7	75.9
102.5°	88.1	103.8	127.8	143.7	118.4
105°	110.8	124.2	146.8	161.8	166.7
107.5°	134.0	144.5	167.1	182.5	185.6
110°	156.6	165.6	187.5	200.6	206.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.6	186.3	207.0	219.2	223.8
115°	199.7	206.8	226.6	238.8	241.2
117.5°	222.0	225.7	245.9	256.6	261.2
120°	243.2	245.0	263.4	275.5	278.2
122.5°	261.1	263.7	280.6	291.8	294.3
125°	280.6	282.4	297.4	307.9	310.7
127.5°	298.6	299.6	312.0	322.6	324.3
130°	315.6	316.6	327.4	337.0	338.9
132.5°	331.8	333.9	340.3	350.9	352.2
135°	347.7	349.1	353.6	362.7	364.4
137.5°	362.5	364.0	366.2	375.2	376.5
140°	376.3	377.0	377.4	386.4	387.3
142.5°	389.4	389.0	389.7	396.5	397.4
145°	402.1	402.1	402.1	406.2	407.1
147.5°	412.7	412.7	413.0	414.9	413.9
150°	423.3	422.6	423.3	424.0	421.9
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)