

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: P1028092

Luminaire Tested: S125DIP-B610D375UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028092
REPORT IS A COMBINATION OF REPORTS P1002286 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-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

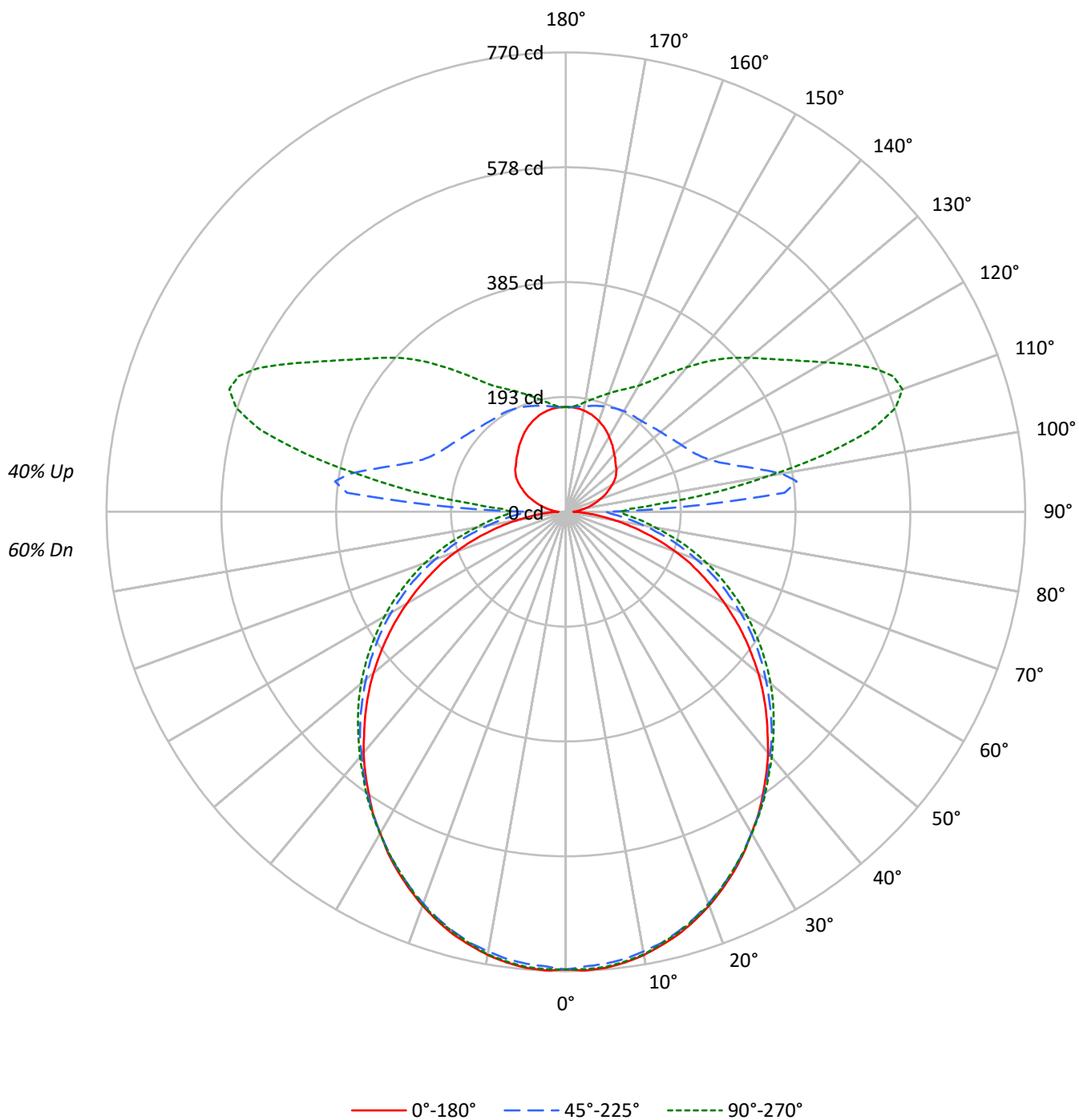
Lumens per Lamp: N/A
Luminaire Lumens: 3697.7 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	45
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	38
4	75	63	55	49	70	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	28	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	16

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	2.0
10°-20°	206.1	5.6
20°-30°	306.5	8.3
30°-40°	363.0	9.8
40°-50°	375.3	10.1
50°-60°	345.7	9.3
60°-70°	279.5	7.6
70°-80°	187.0	5.1
80°-90°	97.4	2.6
90°-100°	186.5	5.0
100°-110°	314.5	8.5
110°-120°	283.1	7.7
120°-130°	222.6	6.0
130°-140°	173.3	4.7
140°-150°	127.1	3.4
150°-160°	88.5	2.4
160°-170°	52.2	1.4
170°-180°	17.0	0.5
0°-30°	585.2	15.8
0°-40°	948.2	25.6
0°-60°	1669.2	45.1
0°-90°	2233.1	60.4
90°-120°	784.1	21.2
90°-150°	1307.0	35.3
90°-180°	1465.0	39.6
0°-180°	3697.7	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	92	9
95°	22	64	368	214	160	20
105°	47	75	298	561	530	49
115°	76	96	235	486	569	75
125°	102	118	215	382	444	91
135°	118	140	202	312	361	91
145°	136	155	197	249	276	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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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	39.2	67.4	86.4	92.4
92.5°	15.8	61.3	199.8	112.8	106.7
95°	21.5	63.8	368.2	213.6	159.8
97.5°	27.0	64.4	390.3	324.4	255.1
100°	33.1	66.9	367.4	426.7	344.3
102.5°	39.7	70.8	330.8	512.8	445.2
105°	46.8	74.6	297.8	561.2	530.2
107.5°	53.4	79.6	272.8	572.8	579.5
110°	60.8	85.0	255.3	555.0	600.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.9	90.3	243.8	522.2	594.0
115°	75.9	95.9	235.1	486.5	569.3
117.5°	82.3	101.6	228.9	453.0	534.8
120°	89.4	107.6	223.8	425.0	500.6
122.5°	96.0	112.9	219.0	401.3	470.1
125°	102.0	118.3	214.6	382.2	444.3
127.5°	106.3	124.2	210.9	364.7	421.2
130°	110.9	130.6	207.9	347.7	401.5
132.5°	113.6	136.2	204.9	329.7	381.9
135°	117.5	140.3	201.9	311.6	361.2
137.5°	122.4	144.8	200.0	293.6	339.0
140°	126.0	148.5	198.1	276.8	316.5
142.5°	130.9	151.1	197.0	261.9	295.5
145°	135.9	154.7	196.6	248.6	276.2
147.5°	140.4	157.9	195.9	237.5	257.9
150°	145.0	160.7	194.8	228.8	244.1
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)