

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: P1027896

Luminaire Tested: S125DIP-B375D610UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027896
REPORT IS A COMBINATION OF REPORTS P1002027 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

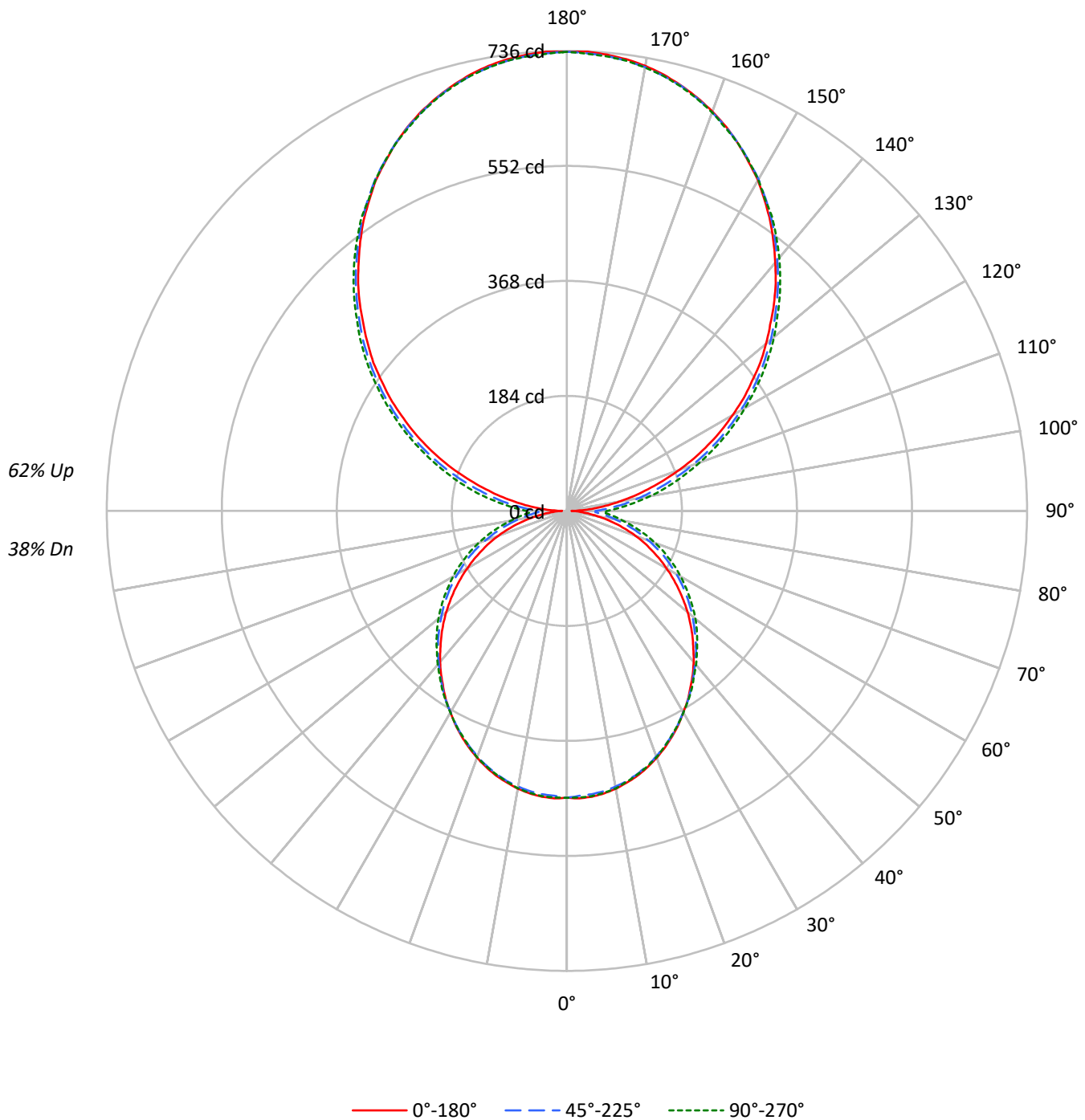
Lumens per Lamp: N/A
Luminaire Lumens: 3473.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	38		
1	95	90	86	82	86	82	78	75	67	64	62	52	51	49	39	38	37	31		
2	86	78	72	67	78	71	66	61	58	54	51	46	43	41	34	33	31	26		
3	78	69	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26	22		
4	71	61	53	47	64	55	48	43	45	40	36	36	32	29	27	24	22	18		
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16		
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17	14		
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15	12		
8	51	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13	11		
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10		
10	45	33	26	21	40	30	24	19	25	20	16	20	16	14	16	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.3
10°-20°	123.3	3.6
20°-30°	183.4	5.3
30°-40°	217.2	6.3
40°-50°	224.5	6.5
50°-60°	206.8	6.0
60°-70°	167.2	4.8
70°-80°	111.9	3.2
80°-90°	59.0	1.7
90°-100°	81.4	2.3
100°-110°	169.1	4.9
110°-120°	262.2	7.5
120°-130°	333.1	9.6
130°-140°	367.0	10.6
140°-150°	356.6	10.3
150°-160°	298.9	8.6
160°-170°	198.7	5.7
170°-180°	69.5	2.0
0°-30°	350.1	10.1
0°-40°	567.3	16.3
0°-60°	998.6	28.8
0°-90°	1336.7	38.5
90°-120°	512.7	14.8
90°-150°	1569.4	45.2
90°-180°	2136.0	61.5
0°-180°	3473.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	27	46	59	64	8
95°	43	56	77	91	95	43
105°	134	144	161	174	179	143
115°	249	254	267	275	277	246
125°	361	364	374	380	382	324
135°	468	472	475	481	481	361
145°	567	569	570	573	573	354
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	7.8	26.7	46.0	59.3	64.1
92.5°	23.4	39.4	60.2	74.2	78.5
95°	43.1	55.9	76.9	90.8	95.1
97.5°	62.6	73.9	96.8	109.7	113.4
100°	85.0	94.4	116.3	130.9	134.7
102.5°	109.1	120.6	137.3	152.0	156.4
105°	134.4	144.5	161.4	173.8	178.7
107.5°	161.9	171.1	187.0	197.8	200.5
110°	190.7	198.9	213.2	223.5	226.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.4	225.5	240.0	248.7	250.7
115°	249.0	254.5	267.4	274.9	277.0
117.5°	278.4	281.1	293.6	301.8	302.7
120°	305.8	310.0	320.9	328.5	328.9
122.5°	335.0	336.1	347.7	354.3	355.3
125°	361.3	364.4	373.9	380.0	381.6
127.5°	390.1	391.3	399.6	405.7	407.2
130°	415.8	418.1	425.6	431.3	432.5
132.5°	441.0	446.2	450.1	455.8	455.9
135°	468.4	471.5	475.1	481.0	481.0
137.5°	494.2	497.2	500.1	506.1	505.1
140°	518.3	521.2	523.3	529.5	528.4
142.5°	542.9	544.7	547.0	551.7	550.6
145°	566.9	568.7	570.4	572.7	572.8
147.5°	588.7	590.4	591.6	594.2	590.5
150°	611.0	610.4	612.7	612.7	612.1
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)