

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: P1027915

Luminaire Tested: S125DIP-B375D610UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027915
REPORT IS A COMBINATION OF REPORTS P1002046 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB40-4F0-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

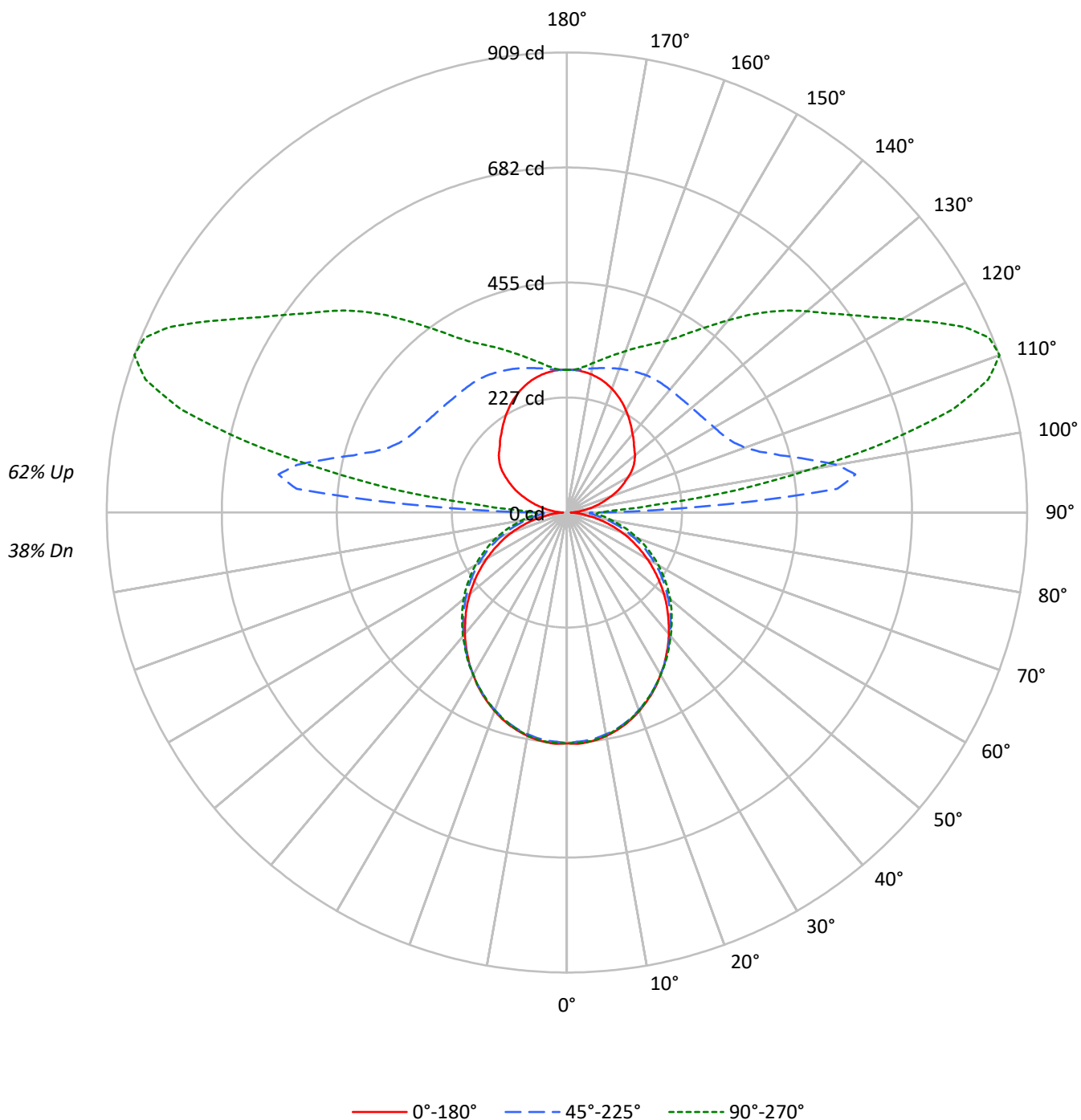
Lumens per Lamp: N/A
Luminaire Lumens: 3535.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	76	76	76	60	60	60	45	45	45	38		
1	94	90	86	82	85	82	78	75	66	64	61	52	50	49	39	38	37	30		
2	86	78	72	67	77	71	66	61	58	54	50	45	42	40	34	32	30	25		
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	27	26	21		
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22	18		
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	15		
6	60	48	40	34	54	44	37	32	36	30	26	28	24	22	21	19	17	13		
7	55	43	35	30	50	39	33	28	32	27	23	26	22	19	20	17	15	12		
8	51	39	31	26	46	36	29	24	29	24	21	23	20	17	18	15	13	11		
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	16	14	12	10		
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.2
10°-20°	122.5	3.5
20°-30°	182.2	5.2
30°-40°	215.8	6.1
40°-50°	223.1	6.3
50°-60°	205.5	5.8
60°-70°	166.1	4.7
70°-80°	111.2	3.1
80°-90°	58.6	1.7
90°-100°	244.6	6.9
100°-110°	464.7	13.1
110°-120°	427.7	12.1
120°-130°	342.2	9.7
130°-140°	271.7	7.7
140°-150°	202.8	5.7
150°-160°	142.3	4.0
160°-170°	83.9	2.4
170°-180°	27.3	0.8
0°-30°	347.9	9.8
0°-40°	563.7	15.9
0°-60°	992.3	28.1
0°-90°	1328.2	37.6
90°-120°	1137.0	32.2
90°-150°	1953.8	55.3
90°-180°	2207.0	62.4
0°-180°	3535.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	27	46	59	63	6
95°	25	73	536	271	179	24
105°	68	101	437	845	790	72
115°	118	144	348	738	867	116
125°	161	188	327	584	680	143
135°	187	225	318	485	560	145
145°	218	249	316	396	437	136
155°	248	266	308	348	363	114
165°	270	278	296	313	318	76
175°	281	281	284	287	286	27
180°	282	282	282	282	282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	7.8	26.6	45.8	59.0	63.2
92.5°	14.8	65.8	261.6	105.2	89.8
95°	24.6	72.8	536.0	271.0	179.1
97.5°	34.4	76.1	574.7	452.7	336.0
100°	44.7	83.0	541.7	621.0	483.9
102.5°	56.2	91.7	485.9	763.1	649.9
105°	68.2	101.0	436.6	844.6	789.6
107.5°	79.7	111.2	399.5	866.4	872.5
110°	92.3	122.2	374.4	841.8	909.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.4	133.1	359.0	792.6	902.6
115°	117.5	144.2	348.1	738.3	866.9
117.5°	128.3	155.6	341.3	688.4	814.5
120°	139.7	167.0	336.1	646.5	763.4
122.5°	151.2	177.5	331.4	612.2	718.0
125°	160.9	187.7	327.4	584.4	680.5
127.5°	168.4	198.1	324.4	560.1	646.4
130°	175.7	208.3	322.0	535.8	618.6
132.5°	181.0	217.4	320.2	509.9	590.7
135°	187.3	224.6	318.4	484.7	560.5
137.5°	195.2	231.6	317.6	458.8	528.8
140°	201.6	237.6	316.8	434.8	495.7
142.5°	209.5	242.9	316.5	414.0	464.9
145°	217.5	248.6	315.9	395.7	437.0
147.5°	225.6	253.7	314.8	380.2	411.5
150°	233.0	258.2	313.1	367.6	391.3
152.5°	240.9	262.8	310.8	357.7	376.2
155°	247.7	266.5	308.0	348.0	363.1
157.5°	254.0	270.2	305.1	339.0	351.2
160°	260.2	273.0	302.3	329.8	339.2
162.5°	265.4	275.9	298.9	321.6	328.4
165°	270.5	277.9	295.5	313.4	318.2
167.5°	273.9	279.0	292.1	305.7	308.5
170°	277.3	280.5	289.2	298.3	300.0
172.5°	279.6	281.0	285.8	292.4	292.1
175°	281.3	281.3	283.5	287.0	285.8
177.5°	282.4	281.3	281.8	283.5	281.8
180°	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)