

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: P1027888

Luminaire Tested: S125DIP-B375D610UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027888
REPORT IS A COMBINATION OF REPORTS P1002004 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

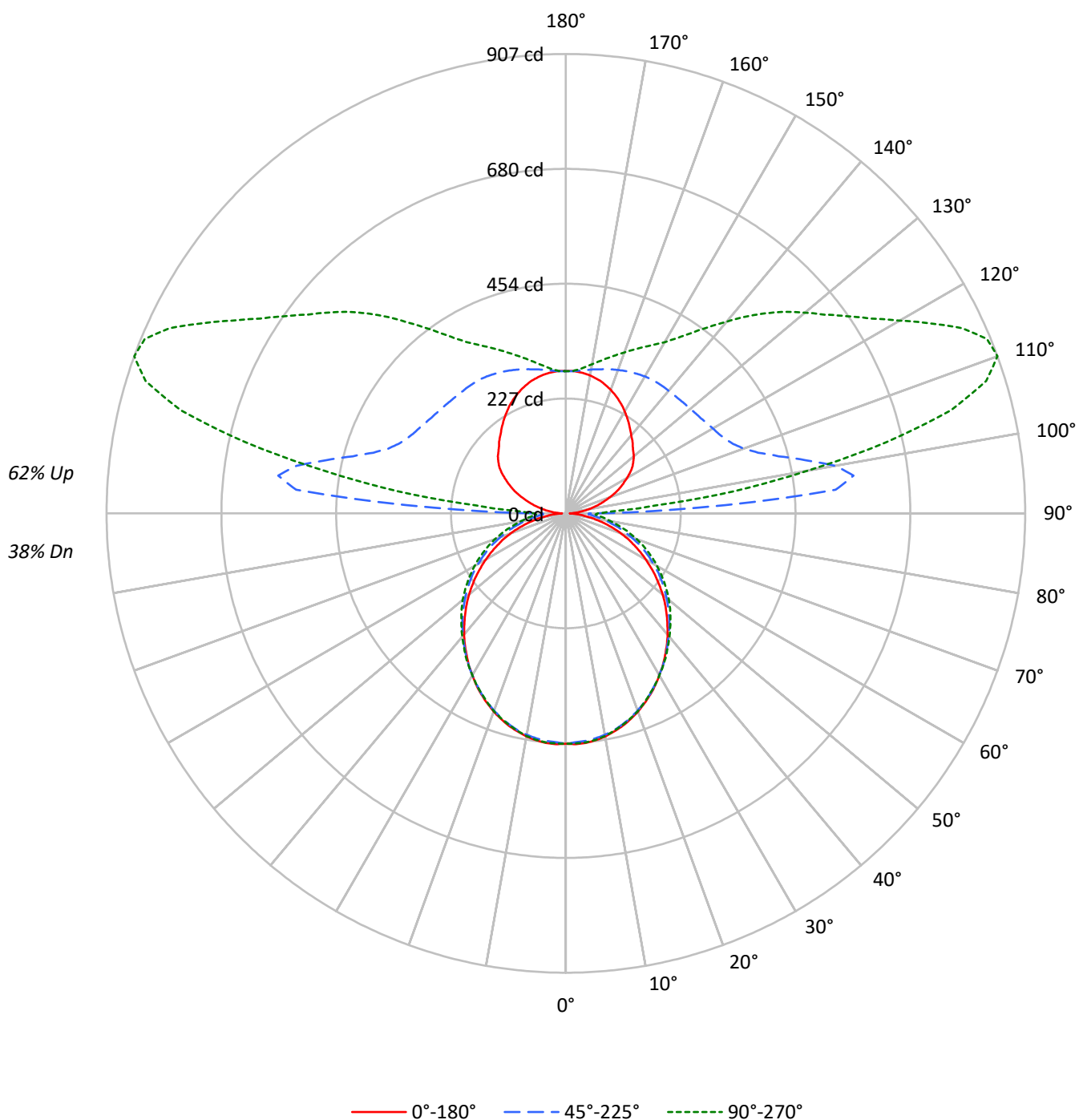
Lumens per Lamp: N/A
Luminaire Lumens: 3525.3 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				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	95	95	95	95	76	76	76	60	60	60	45	45	45
1	94	90	86	82	85	82	78	75	66	64	61	52	50	49	39	38	37
2	86	78	72	67	77	71	66	61	58	54	50	45	42	40	34	32	30
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	27	26
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	30	26	28	24	22	21	19	17
7	55	43	35	30	50	39	33	28	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	21	23	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	16	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.2
10°-20°	122.2	3.5
20°-30°	181.7	5.2
30°-40°	215.2	6.1
40°-50°	222.5	6.3
50°-60°	204.9	5.8
60°-70°	165.7	4.7
70°-80°	110.8	3.1
80°-90°	58.4	1.7
90°-100°	243.9	6.9
100°-110°	463.4	13.1
110°-120°	426.5	12.1
120°-130°	341.3	9.7
130°-140°	270.9	7.7
140°-150°	202.3	5.7
150°-160°	141.9	4.0
160°-170°	83.6	2.4
170°-180°	27.2	0.8
0°-30°	346.9	9.8
0°-40°	562.1	15.9
0°-60°	989.5	28.1
0°-90°	1324.4	37.6
90°-120°	1133.8	32.2
90°-150°	1948.3	55.3
90°-180°	2201.0	62.4
0°-180°	3525.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	26	46	59	63	6
95°	24	73	535	270	179	24
105°	68	101	435	842	787	72
115°	117	144	347	736	864	115
125°	160	187	326	583	679	142
135°	187	224	318	483	559	145
145°	217	248	315	395	436	136
155°	247	266	307	347	362	114
165°	270	277	295	312	317	76
175°	280	280	283	286	285	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	7.7	26.5	45.7	58.7	62.9
92.5°	14.7	65.7	260.9	105.0	89.6
95°	24.5	72.6	534.6	270.2	178.7
97.5°	34.3	75.8	573.0	451.5	335.1
100°	44.6	82.9	540.2	619.2	482.6
102.5°	56.1	91.4	484.6	761.0	648.0
105°	68.0	100.6	435.3	842.2	787.4
107.5°	79.5	111.0	398.4	864.0	870.1
110°	92.1	121.8	373.4	839.4	906.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.1	132.6	358.0	790.4	900.0
115°	117.2	143.8	347.2	736.2	864.4
117.5°	128.0	155.2	340.3	686.4	812.2
120°	139.3	166.5	335.1	644.6	761.3
122.5°	150.8	177.0	330.4	610.4	715.9
125°	160.5	187.2	326.5	582.9	678.6
127.5°	167.9	197.5	323.5	558.6	644.5
130°	175.2	207.7	321.0	534.4	616.8
132.5°	180.5	216.8	319.3	508.6	589.1
135°	186.7	224.0	317.5	483.4	558.9
137.5°	194.7	231.0	316.7	457.5	527.3
140°	201.0	237.0	315.9	433.6	494.3
142.5°	208.9	242.2	315.6	412.8	463.6
145°	216.8	247.9	315.0	394.6	435.8
147.5°	224.9	253.0	313.9	379.2	410.3
150°	232.3	257.5	312.2	366.6	390.2
152.5°	240.2	262.0	309.9	356.7	375.1
155°	247.0	265.8	307.1	347.0	362.1
157.5°	253.3	269.4	304.3	338.0	350.2
160°	259.5	272.2	301.4	328.9	338.3
162.5°	264.6	275.1	298.0	320.7	327.5
165°	269.7	277.1	294.6	312.5	317.3
167.5°	273.1	278.2	291.2	304.8	307.7
170°	276.5	279.6	288.4	297.4	299.2
172.5°	278.8	280.2	285.0	291.5	291.2
175°	280.5	280.5	282.7	286.1	285.0
177.5°	281.6	280.5	281.0	282.7	281.0
180°	281.0	281.0	281.0	281.0	281.0

(END OF REPORT)