

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: P1027887

Luminaire Tested: S125DIP-B375D610UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027887
REPORT IS A COMBINATION OF REPORTS P1002003 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

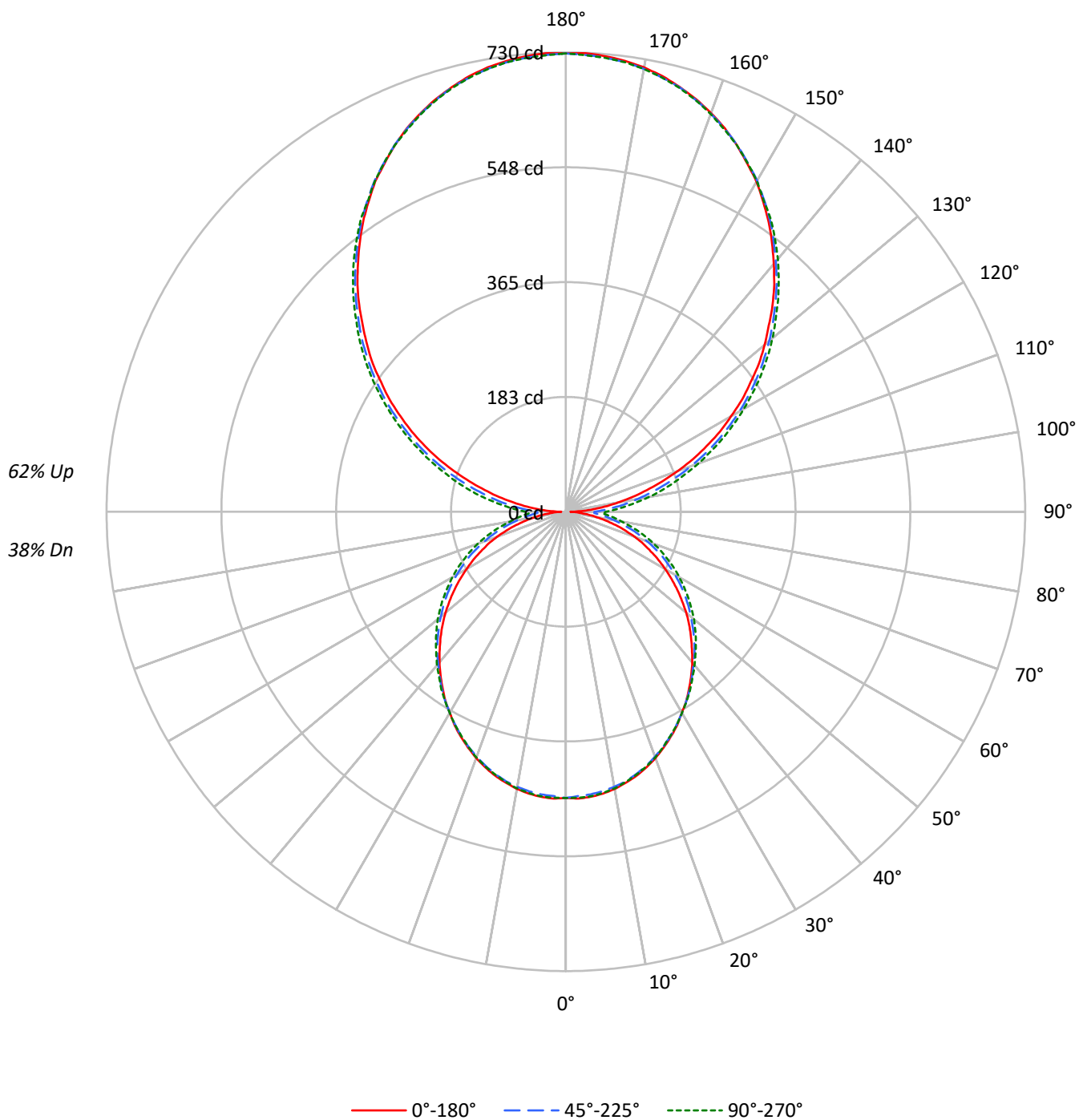
Lumens per Lamp: N/A
Luminaire Lumens: 3443.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	66	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°	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	1.3
10°-20°	122.2	3.5
20°-30°	181.7	5.3
30°-40°	215.2	6.2
40°-50°	222.5	6.5
50°-60°	204.9	6.0
60°-70°	165.7	4.8
70°-80°	110.8	3.2
80°-90°	58.4	1.7
90°-100°	80.7	2.3
100°-110°	167.7	4.9
110°-120°	260.0	7.6
120°-130°	330.3	9.6
130°-140°	363.9	10.6
140°-150°	353.6	10.3
150°-160°	296.4	8.6
160°-170°	197.0	5.7
170°-180°	69.0	2.0
0°-30°	346.9	10.1
0°-40°	562.1	16.3
0°-60°	989.5	28.7
0°-90°	1324.4	38.5
90°-120°	508.4	14.8
90°-150°	1556.2	45.2
90°-180°	2119.0	61.5
0°-180°	3443.0	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	64	7
95°	43	55	76	90	94	43
105°	133	143	160	172	177	142
115°	247	252	265	272	275	244
125°	358	361	371	377	378	321
135°	465	468	471	477	477	358
145°	562	564	566	568	568	351
155°	643	643	643	646	643	296
165°	699	698	698	701	697	197
175°	727	724	724	728	724	69
180°	728	728	728	728	728	

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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	63.5
92.5°	23.2	39.0	59.7	73.5	77.7
95°	42.6	55.4	76.2	90.0	94.2
97.5°	62.1	73.4	96.0	108.7	112.5
100°	84.3	93.7	115.2	129.7	133.6
102.5°	108.2	119.5	136.2	150.8	155.1
105°	133.2	143.2	160.0	172.3	177.2
107.5°	160.6	169.6	185.4	196.1	198.7
110°	189.0	197.3	211.5	221.6	224.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.5	223.6	238.0	246.6	248.5
115°	247.0	252.4	265.1	272.5	274.7
117.5°	276.0	278.8	291.1	299.2	300.1
120°	303.2	307.4	318.2	325.8	326.2
122.5°	332.3	333.2	344.7	351.4	352.3
125°	358.3	361.2	370.8	376.8	378.4
127.5°	386.7	388.0	396.2	402.3	403.8
130°	412.3	414.7	422.0	427.8	428.8
132.5°	437.4	442.5	446.4	452.0	452.1
135°	464.6	467.5	471.2	477.0	477.0
137.5°	490.1	493.0	495.9	501.9	500.8
140°	514.0	516.8	519.0	525.0	524.0
142.5°	538.3	540.2	542.5	547.0	546.0
145°	562.1	564.0	565.7	567.9	568.0
147.5°	583.8	585.5	586.7	589.3	585.6
150°	605.9	605.4	607.6	607.6	606.9
152.5°	624.1	625.2	625.8	627.5	625.2
155°	642.8	642.8	643.4	645.6	642.8
157.5°	659.8	658.7	659.2	661.5	657.5
160°	674.5	672.8	673.4	675.7	672.8
162.5°	687.6	686.4	686.4	689.3	685.9
165°	698.9	697.8	698.3	700.6	697.2
167.5°	709.1	706.8	706.8	710.2	706.8
170°	717.0	714.8	714.8	718.2	714.2
172.5°	722.7	720.5	720.5	723.9	720.5
175°	726.7	724.4	724.4	727.8	723.9
177.5°	729.5	727.3	726.7	730.1	726.1
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)