

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: P1027886

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027886
REPORT IS A COMBINATION OF REPORTS P1002002 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-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

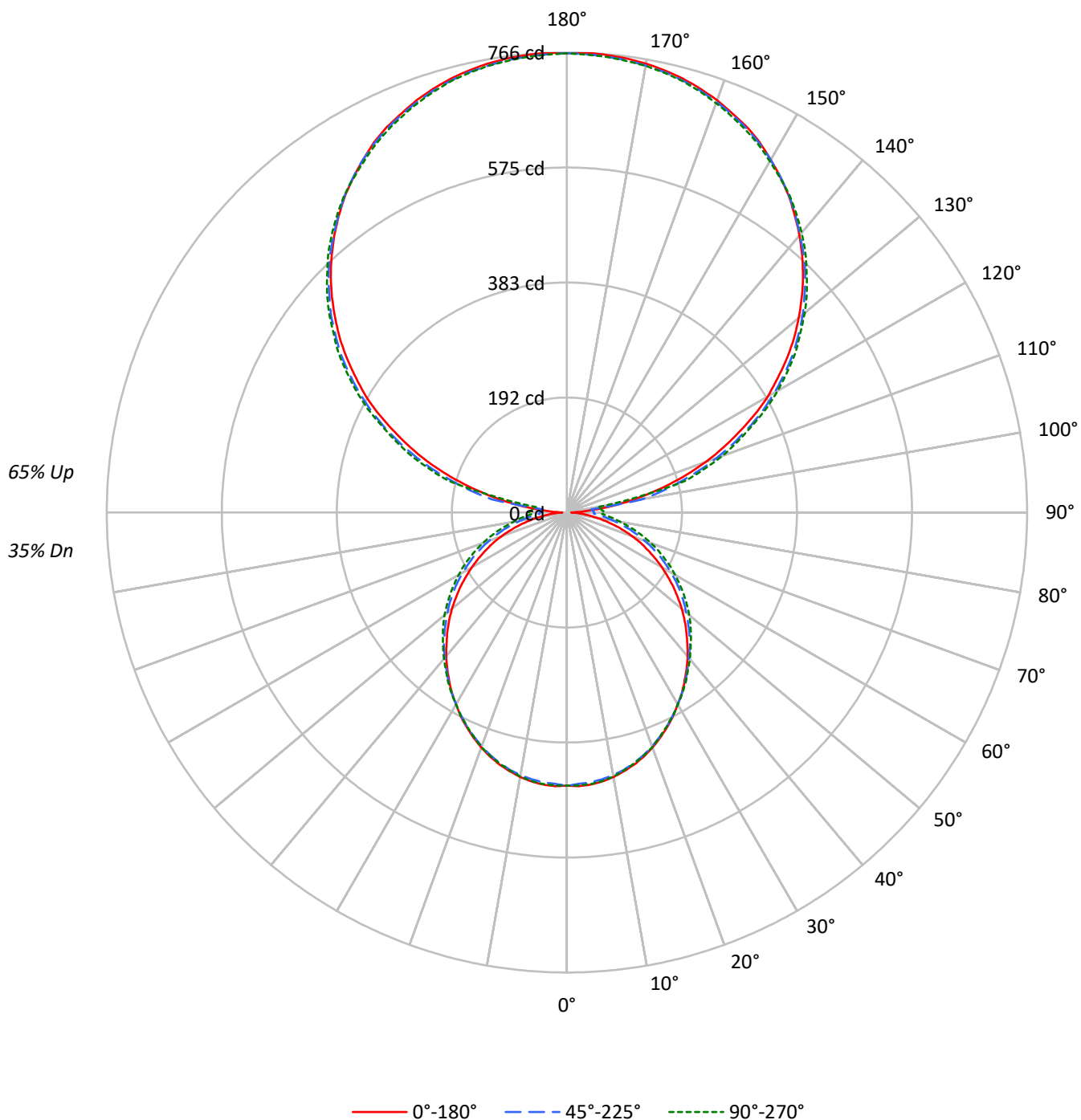
Lumens per Lamp: N/A
Luminaire Lumens: 3759.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	94	94	94	94	75	75	75	58	58	58	43	43	43	35		
1	94	89	85	82	85	81	78	75	65	63	60	50	49	47	37	36	35	29		
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	24		
3	78	68	61	55	70	62	55	50	50	45	41	39	35	33	28	26	24	20		
4	71	60	52	46	64	55	48	42	44	39	35	34	31	28	25	23	21	17		
5	65	53	45	39	58	49	41	36	39	34	30	31	27	24	23	20	18	14		
6	60	48	40	34	54	43	36	31	35	30	26	28	24	21	20	18	16	13		
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11		
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12	10		
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9		
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10	8		

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	1.1
10°-20°	122.2	3.3
20°-30°	181.7	4.8
30°-40°	215.2	5.7
40°-50°	222.5	5.9
50°-60°	204.9	5.5
60°-70°	165.7	4.4
70°-80°	110.8	2.9
80°-90°	58.4	1.6
90°-100°	58.3	1.5
100°-110°	196.3	5.2
110°-120°	326.7	8.7
120°-130°	407.9	10.9
130°-140°	433.0	11.5
140°-150°	403.4	10.7
150°-160°	325.7	8.7
160°-170°	210.6	5.6
170°-180°	72.6	1.9
0°-30°	346.9	9.2
0°-40°	562.1	15.0
0°-60°	989.5	26.3
0°-90°	1324.4	35.2
90°-120°	581.3	15.5
90°-150°	1825.6	48.6
90°-180°	2435.0	64.8
0°-180°	3759.0	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°	38	48	42	54	57	44
105°	171	180	193	202	205	181
115°	316	322	334	339	339	313
125°	447	450	459	464	465	399
135°	556	559	561	566	564	429
145°	644	644	644	647	646	403
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

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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°	17.0	24.9	43.9	56.5	60.2
95°	38.1	48.0	41.7	54.3	57.4
97.5°	66.1	80.2	41.0	51.4	55.2
100°	99.6	110.7	127.1	52.1	52.5
102.5°	133.7	144.4	159.4	169.5	124.5
105°	170.6	180.0	193.4	202.3	204.9
107.5°	208.8	215.0	229.0	238.6	238.9
110°	245.7	251.1	264.7	271.4	275.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.8	286.5	299.2	304.9	306.9
115°	315.6	321.5	333.7	339.4	338.7
117.5°	351.9	354.2	367.6	371.8	373.8
120°	385.9	386.8	398.7	405.1	405.0
122.5°	415.6	418.8	429.2	435.3	434.5
125°	446.8	450.2	459.2	464.1	464.6
127.5°	476.3	478.7	485.8	491.3	489.4
130°	503.5	505.9	512.7	517.3	516.7
132.5°	530.3	533.7	536.5	542.7	541.7
135°	555.8	558.7	560.8	565.5	564.3
137.5°	579.6	582.5	583.2	588.6	587.6
140°	602.4	603.5	603.4	609.5	607.9
142.5°	623.3	623.5	624.6	628.6	627.0
145°	643.8	644.5	644.5	647.3	645.7
147.5°	661.5	661.5	662.1	663.5	660.5
150°	678.5	677.4	678.5	679.6	675.5
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)