

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: P1027841

Luminaire Tested: S125DIP-B375D375UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027841
REPORT IS A COMBINATION OF REPORTS P1001942 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB27-4F0-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

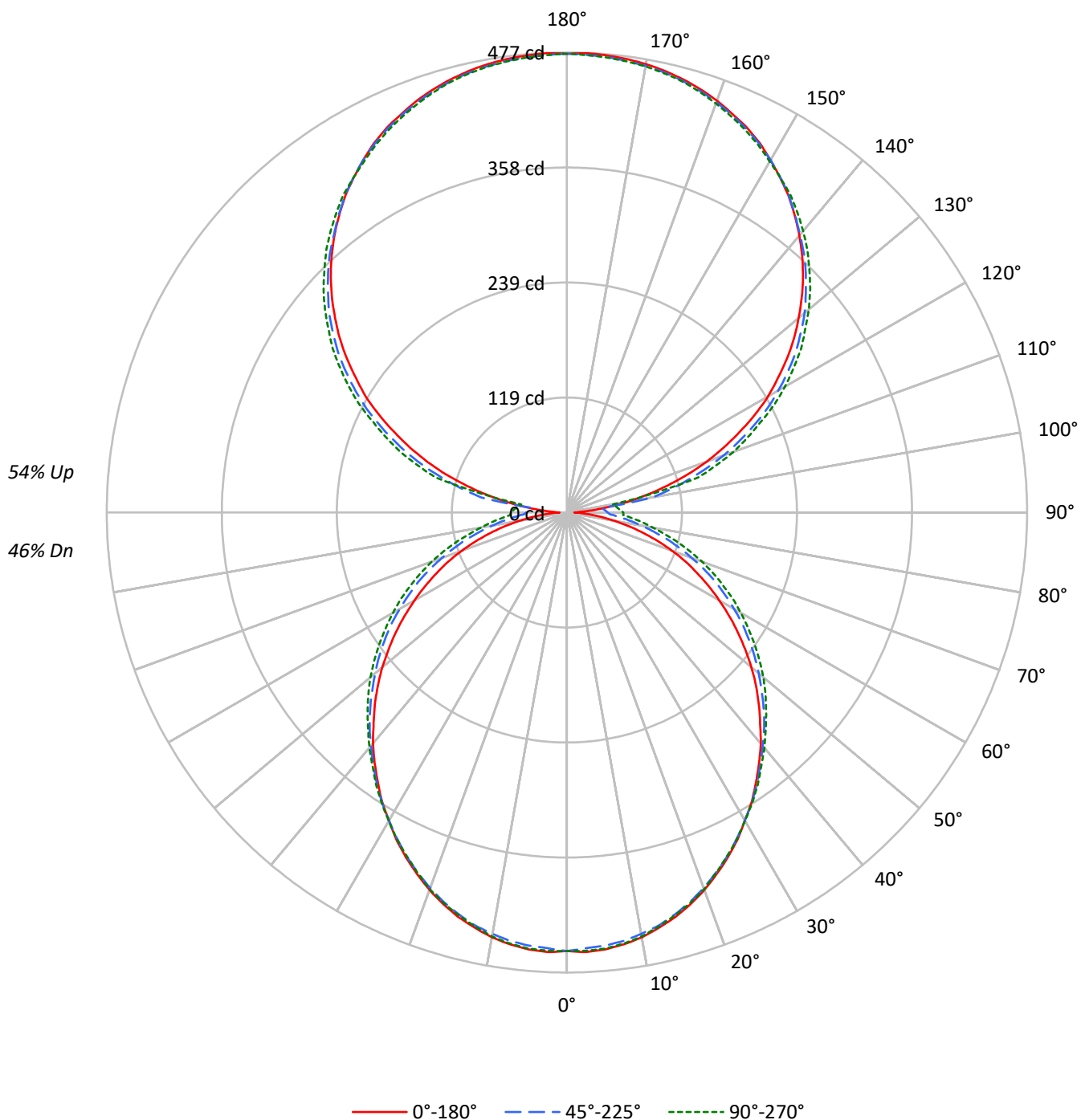
Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53
1	96	92	88	84	88	84	81	77	70	68	65	57	55	54	45	44	43
2	87	80	73	68	80	73	68	63	61	57	53	50	47	44	40	37	36
3	79	70	62	56	73	64	58	52	54	49	45	44	40	37	35	32	30
4	73	62	53	47	66	57	50	44	47	42	38	39	35	32	31	28	26
5	67	55	46	40	61	50	43	38	42	37	32	35	31	27	28	25	22
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	20
7	57	44	36	30	52	41	34	29	34	29	25	29	24	21	23	20	17
8	52	40	32	27	48	37	30	25	31	26	22	26	22	19	21	18	15
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	19	16	14
10	46	33	26	21	42	31	24	20	26	21	18	22	18	15	18	15	13

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	1.5
10°-20°	122.2	4.3
20°-30°	181.7	6.3
30°-40°	215.2	7.5
40°-50°	222.5	7.7
50°-60°	204.9	7.1
60°-70°	165.7	5.8
70°-80°	110.8	3.9
80°-90°	58.0	2.0
90°-100°	48.4	1.7
100°-110°	131.1	4.6
110°-120°	209.3	7.3
120°-130°	257.2	9.0
130°-140°	270.9	9.4
140°-150°	251.3	8.8
150°-160°	202.6	7.1
160°-170°	131.0	4.6
170°-180°	45.2	1.6
0°-30°	346.9	12.1
0°-40°	562.1	19.6
0°-60°	989.5	34.5
0°-90°	1323.9	46.1
90°-120°	388.8	13.5
90°-150°	1168.1	40.7
90°-180°	1547.0	53.9
0°-180°	2871.0	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	25	42	54	58	6
95°	26	36	38	50	53	29
105°	108	116	130	138	141	114
115°	197	202	214	221	221	196
125°	279	281	290	295	296	249
135°	346	348	350	355	355	267
145°	401	401	401	404	403	250
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

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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°	7.5	24.6	42.2	54.2	58.4
92.5°	12.9	22.7	40.4	52.0	55.5
95°	25.9	36.4	38.2	49.8	52.9
97.5°	43.1	55.9	37.1	47.2	50.7
100°	63.8	74.2	89.9	46.7	48.0
102.5°	84.9	94.7	109.3	118.9	91.9
105°	107.7	116.2	129.6	138.5	141.3
107.5°	131.3	137.5	151.1	160.4	161.6
110°	154.0	159.4	172.6	180.0	183.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.9	181.0	193.4	200.0	202.4
115°	197.4	202.2	214.2	220.8	221.3
117.5°	219.8	222.1	234.6	240.1	242.5
120°	240.9	242.0	253.2	260.1	261.1
122.5°	259.2	261.4	271.5	278.0	278.5
125°	278.6	280.6	289.6	295.3	296.4
127.5°	296.8	298.2	305.4	311.4	311.2
130°	313.7	315.1	321.7	326.9	327.3
132.5°	330.3	332.4	335.8	342.0	342.1
135°	346.1	347.8	350.2	355.3	355.4
137.5°	360.9	362.6	363.7	369.1	369.1
140°	374.9	375.6	375.8	381.4	381.0
142.5°	388.0	387.9	388.6	392.6	392.3
145°	400.6	401.0	401.0	403.5	403.2
147.5°	411.5	411.5	411.9	413.1	411.6
150°	422.1	421.4	422.1	422.8	420.4
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)