

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: P1027878

Luminaire Tested: S125DIP-B375D375UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027878
REPORT IS A COMBINATION OF REPORTS P1001994 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

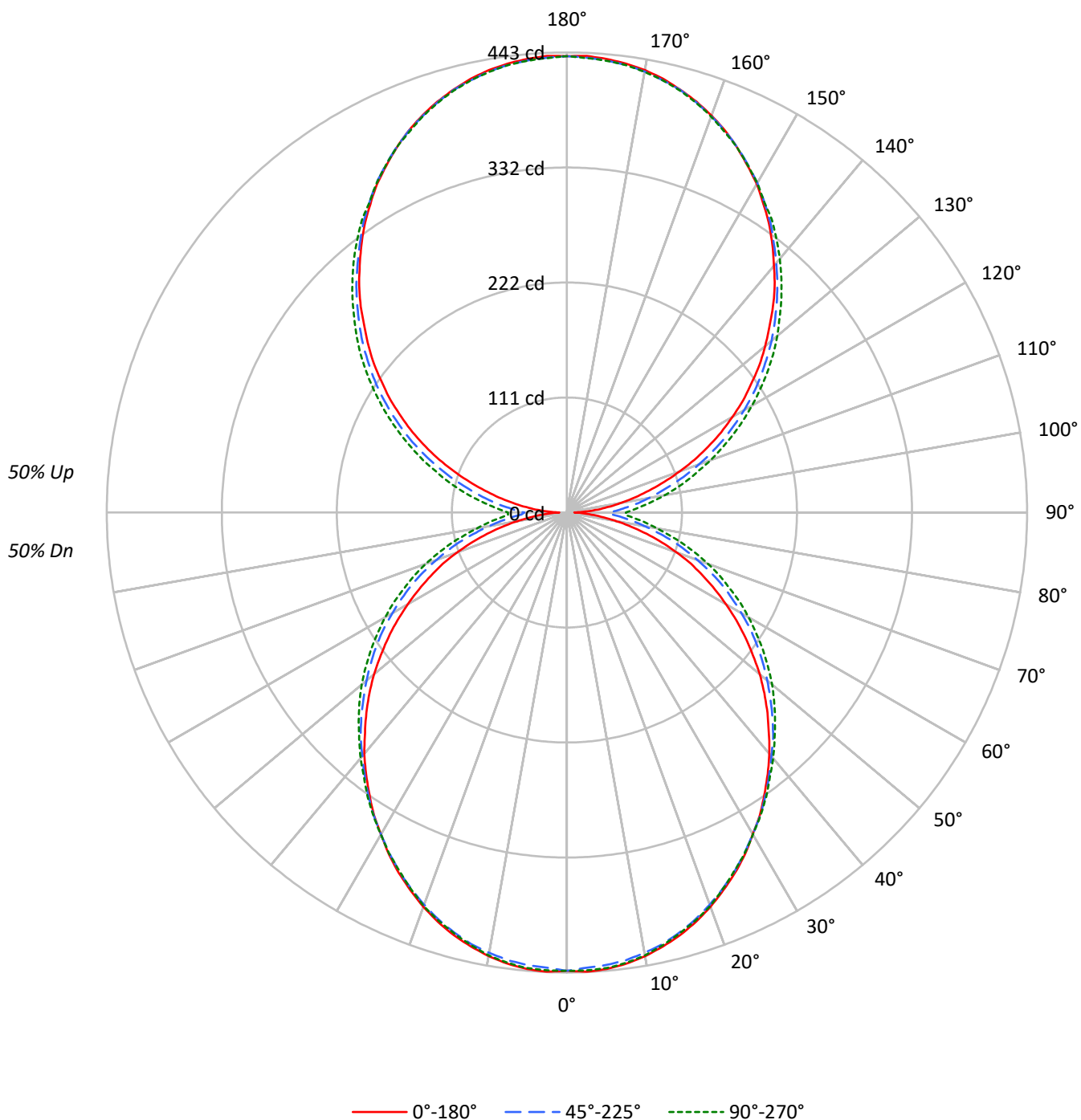
Lumens per Lamp: N/A
Luminaire Lumens: 2594.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	59	58	56	48	47	46
2	88	80	74	68	81	74	68	64	62	58	55	52	49	46	42	40	38
3	80	70	63	57	73	65	58	53	55	50	46	45	42	39	37	34	32
4	73	62	54	48	67	57	50	45	49	43	39	40	36	33	33	30	27
5	67	55	47	41	61	51	44	38	43	38	33	36	32	28	29	26	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	23	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	24	21	18
8	53	40	32	27	49	38	30	26	32	26	22	27	23	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	21	17	21	17	15
10	46	34	26	22	42	31	25	20	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.6
10°-20°	118.5	4.6
20°-30°	176.3	6.8
30°-40°	208.8	8.0
40°-50°	215.8	8.3
50°-60°	198.8	7.7
60°-70°	160.7	6.2
70°-80°	107.6	4.1
80°-90°	56.3	2.2
90°-100°	60.5	2.3
100°-110°	109.9	4.2
110°-120°	162.7	6.3
120°-130°	202.6	7.8
130°-140°	221.0	8.5
140°-150°	213.6	8.2
150°-160°	178.8	6.9
160°-170°	118.9	4.6
170°-180°	41.6	1.6
0°-30°	336.6	13.0
0°-40°	545.3	21.0
0°-60°	960.0	37.0
0°-90°	1284.5	49.5
90°-120°	333.1	12.8
90°-150°	970.3	37.4
90°-180°	1310.0	50.5
0°-180°	2594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	7	24	41	53	57	6
95°	28	40	58	70	74	28
105°	82	90	106	116	120	87
115°	150	154	166	174	176	148
125°	217	218	228	234	235	194
135°	281	282	286	291	292	216
145°	339	340	341	344	344	212
155°	388	388	388	390	388	179
165°	422	421	421	423	421	119
175°	438	437	437	439	437	42
180°	439	439	439	439	439	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.2	23.9	41.0	52.6	56.7
92.5°	16.4	30.6	48.7	60.7	64.4
95°	27.8	39.8	57.9	69.8	73.5
97.5°	39.4	50.1	69.2	80.3	83.7
100°	52.7	61.7	80.0	92.2	95.5
102.5°	66.9	76.8	92.0	104.0	107.6
105°	81.9	90.5	105.5	116.2	120.3
107.5°	98.2	105.9	120.2	129.9	132.5
110°	115.2	122.1	135.2	144.5	147.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.9	137.5	150.6	158.7	161.0
115°	150.0	154.3	166.3	173.8	176.0
117.5°	167.4	169.8	181.3	189.0	190.7
120°	183.8	186.8	197.0	204.4	205.7
122.5°	201.1	201.9	212.4	219.0	220.6
125°	216.8	218.4	227.5	233.7	235.4
127.5°	233.8	234.4	242.1	248.2	250.2
130°	249.2	250.5	257.2	263.0	264.4
132.5°	264.2	267.3	271.2	276.9	277.7
135°	280.6	282.2	285.6	291.2	291.9
137.5°	296.0	297.5	300.0	305.6	305.6
140°	310.2	311.9	313.4	318.8	318.9
142.5°	324.9	325.9	327.2	331.5	331.5
145°	339.3	340.2	341.3	343.5	344.1
147.5°	352.2	353.2	353.9	355.8	353.9
150°	365.5	365.2	366.6	366.6	366.3
152.5°	376.5	377.2	377.5	378.5	377.2
155°	387.8	387.8	388.1	389.5	387.8
157.5°	398.0	397.3	397.7	399.0	396.7
160°	406.9	405.9	406.2	407.6	405.9
162.5°	414.8	414.1	414.1	415.8	413.7
165°	421.6	420.9	421.3	422.6	420.6
167.5°	427.8	426.4	426.4	428.5	426.4
170°	432.6	431.2	431.2	433.2	430.8
172.5°	436.0	434.6	434.6	436.7	434.6
175°	438.4	437.0	437.0	439.1	436.7
177.5°	440.1	438.7	438.4	440.4	438.0
180°	439.4	439.4	439.4	439.4	439.4

(END OF REPORT)