

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: P1027869

Luminaire Tested: S125DIP-B375D375UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027869
REPORT IS A COMBINATION OF REPORTS P1001985 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

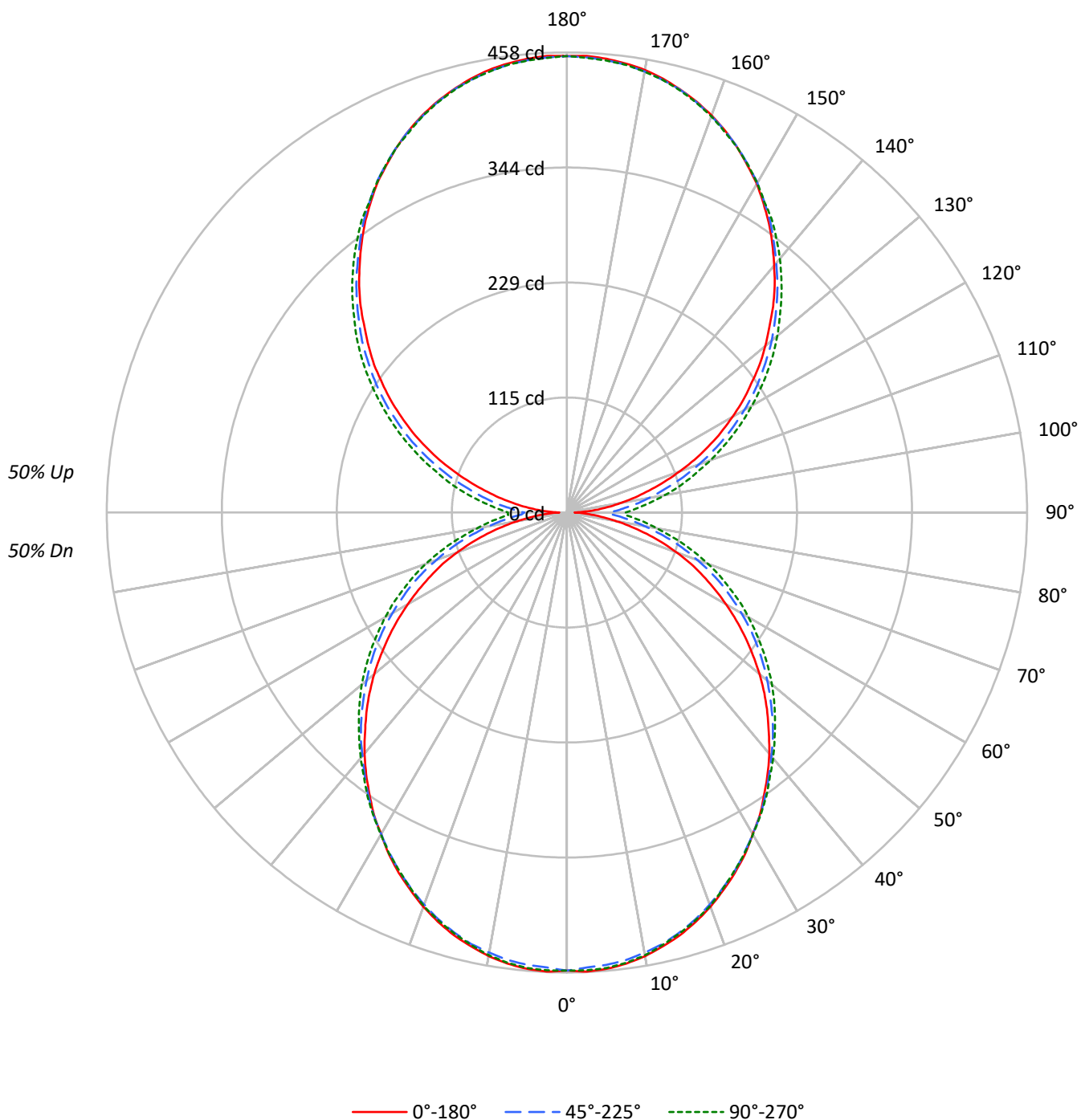
Lumens per Lamp: N/A
Luminaire Lumens: 2682.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	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	56	56	50
1	97	92	88	84	89	85	82	78	72	69	67	59	58	56	48	47	46	46	46	40
2	88	80	74	68	81	74	68	64	62	58	55	52	49	46	42	40	38	38	38	33
3	80	70	63	57	73	65	58	53	55	50	46	45	42	39	37	34	32	32	32	28
4	73	62	54	48	67	57	50	45	49	43	39	40	36	33	33	30	27	27	27	24
5	67	55	47	41	61	51	44	38	43	38	33	36	32	28	29	26	24	24	24	20
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	23	21	21	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	24	21	18	18	18	16
8	53	40	32	27	49	38	30	26	32	26	22	27	23	19	22	19	16	16	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	21	17	21	17	15	15	15	13
10	46	34	26	22	42	31	25	20	27	22	18	23	19	16	19	16	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.6
10°-20°	122.5	4.6
20°-30°	182.2	6.8
30°-40°	215.8	8.0
40°-50°	223.1	8.3
50°-60°	205.5	7.7
60°-70°	166.1	6.2
70°-80°	111.2	4.1
80°-90°	58.2	2.2
90°-100°	62.6	2.3
100°-110°	113.6	4.2
110°-120°	168.2	6.3
120°-130°	209.5	7.8
130°-140°	228.6	8.5
140°-150°	220.9	8.2
150°-160°	184.9	6.9
160°-170°	122.9	4.6
170°-180°	43.0	1.6
0°-30°	347.9	13.0
0°-40°	563.7	21.0
0°-60°	992.3	37.0
0°-90°	1327.8	49.5
90°-120°	344.4	12.8
90°-150°	1003.4	37.4
90°-180°	1354.0	50.5
0°-180°	2682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	25	42	54	59	7
95°	29	41	60	72	76	29
105°	85	94	109	120	124	90
115°	155	160	172	180	182	153
125°	224	226	235	242	244	201
135°	290	292	295	301	302	224
145°	351	352	353	355	356	219
155°	401	401	401	403	401	185
165°	436	435	436	437	435	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	7.6	24.7	42.4	54.4	58.6
92.5°	16.9	31.6	50.5	62.7	66.5
95°	28.8	41.1	59.8	72.2	76.0
97.5°	40.8	51.8	71.6	83.0	86.5
100°	54.4	63.8	82.7	95.3	98.7
102.5°	69.2	79.5	95.1	107.6	111.4
105°	84.6	93.6	109.1	120.1	124.4
107.5°	101.6	109.5	124.3	134.3	137.0
110°	119.1	126.3	139.8	149.4	152.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.5	142.3	155.7	164.2	166.6
115°	155.1	159.6	171.9	179.7	182.0
117.5°	173.0	175.7	187.6	195.5	197.2
120°	190.0	193.2	203.8	211.4	212.6
122.5°	208.0	208.7	219.7	226.4	228.1
125°	224.2	225.9	235.2	241.6	243.6
127.5°	241.8	242.4	250.4	256.7	258.7
130°	257.7	259.1	266.1	271.9	273.5
132.5°	273.2	276.4	280.5	286.4	287.1
135°	290.2	291.8	295.4	301.2	301.9
137.5°	306.1	307.7	310.2	316.0	316.0
140°	320.8	322.6	324.1	329.7	329.8
142.5°	336.0	337.0	338.4	342.8	342.8
145°	350.9	351.9	352.9	355.1	355.9
147.5°	364.3	365.3	366.0	368.0	366.1
150°	378.0	377.7	379.1	379.1	378.8
152.5°	389.4	390.1	390.4	391.5	390.1
155°	401.0	401.0	401.4	402.8	401.0
157.5°	411.6	410.9	411.3	412.7	410.2
160°	420.8	419.8	420.1	421.5	419.8
162.5°	429.0	428.3	428.3	430.0	427.9
165°	436.0	435.3	435.7	437.1	435.0
167.5°	442.4	441.0	441.0	443.1	441.0
170°	447.4	445.9	445.9	448.1	445.6
172.5°	450.9	449.5	449.5	451.6	449.5
175°	453.4	452.0	452.0	454.1	451.6
177.5°	455.1	453.7	453.4	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)