

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: P1027868

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027868
REPORT IS A COMBINATION OF REPORTS P1001984 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-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

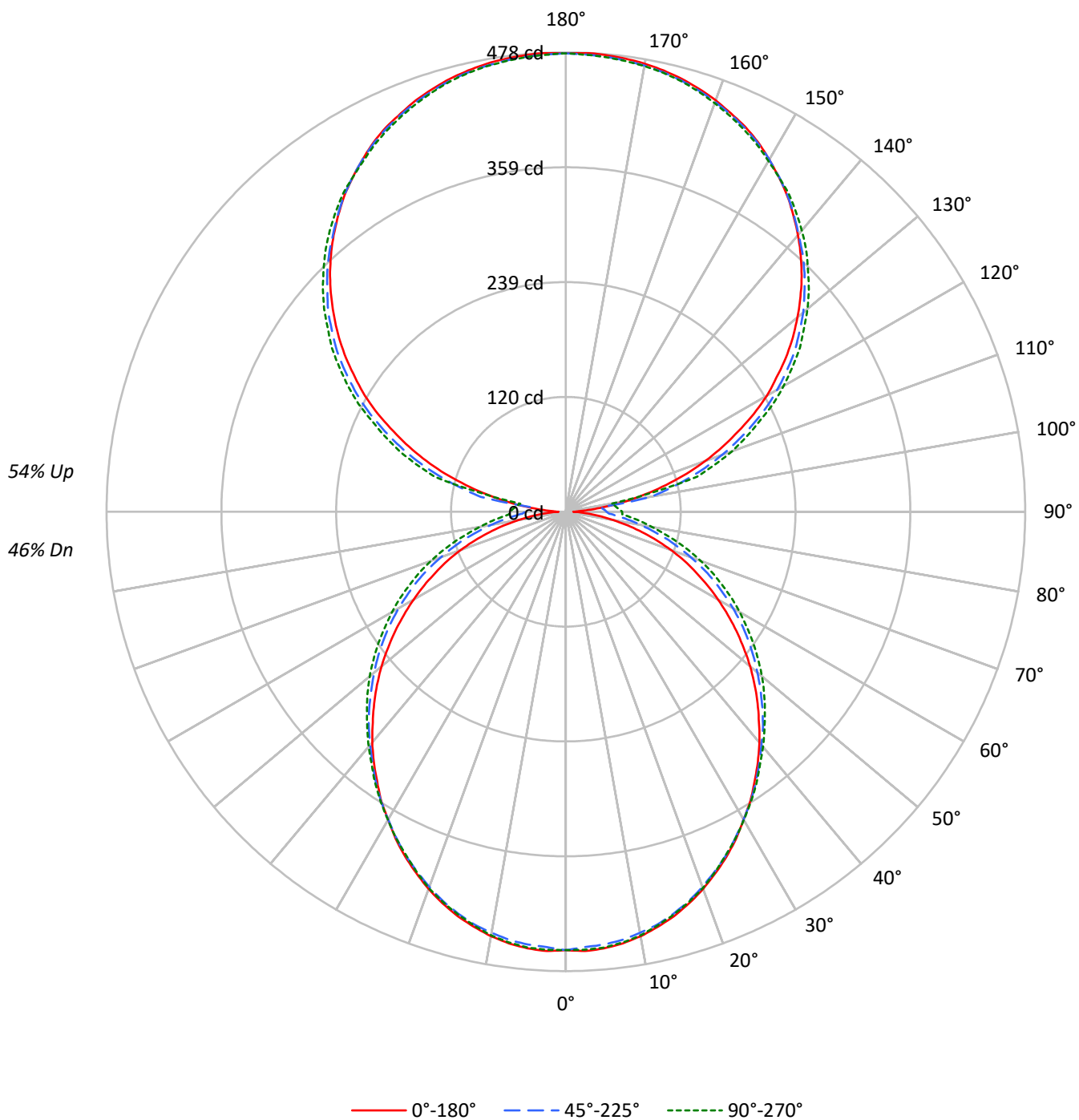
Lumens per Lamp: N/A
Luminaire Lumens: 2879.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V):
Input Current (A_{in}): 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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46		
1	96	92	88	84	88	84	81	77	70	68	65	57	55	54	45	44	43	37		
2	87	80	73	68	80	73	68	63	61	57	53	50	47	44	40	37	36	31		
3	79	70	62	56	73	64	58	52	54	49	45	44	40	37	35	32	30	26		
4	73	62	53	47	66	57	50	44	47	42	38	39	35	32	31	28	26	22		
5	67	55	46	40	61	50	43	38	42	37	32	35	31	27	28	25	22	19		
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	20	17		
7	57	44	36	30	52	41	34	29	34	29	25	29	24	21	23	20	17	15		
8	52	40	32	27	48	37	30	25	31	26	22	26	22	19	21	18	15	13		
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	19	16	14	12		
10	46	33	26	21	42	31	24	20	26	21	18	22	18	15	18	15	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	1.5
10°-20°	122.5	4.3
20°-30°	182.2	6.3
30°-40°	215.8	7.5
40°-50°	223.1	7.7
50°-60°	205.5	7.1
60°-70°	166.1	5.8
70°-80°	111.2	3.9
80°-90°	58.2	2.0
90°-100°	48.6	1.7
100°-110°	131.5	4.6
110°-120°	209.9	7.3
120°-130°	257.9	9.0
130°-140°	271.6	9.4
140°-150°	252.0	8.8
150°-160°	203.2	7.1
160°-170°	131.4	4.6
170°-180°	45.3	1.6
0°-30°	347.9	12.1
0°-40°	563.7	19.6
0°-60°	992.3	34.5
0°-90°	1327.8	46.1
90°-120°	389.9	13.5
90°-150°	1171.4	40.7
90°-180°	1551.0	53.9
0°-180°	2879.0	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	6
95°	26	36	38	50	53	29
105°	108	117	130	139	142	114
115°	198	203	215	221	222	196
125°	279	281	290	296	297	249
135°	347	349	351	356	356	268
145°	402	402	402	405	404	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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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°	13.0	22.7	40.6	52.1	55.6
95°	26.0	36.5	38.3	49.9	53.0
97.5°	43.2	56.1	37.3	47.3	50.8
100°	64.0	74.4	90.1	46.8	48.1
102.5°	85.1	95.0	109.5	119.3	92.2
105°	108.0	116.6	130.0	138.9	141.7
107.5°	131.6	137.8	151.5	160.8	162.1
110°	154.4	159.8	173.1	180.5	183.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	181.5	193.9	200.6	203.0
115°	197.9	202.8	214.7	221.4	222.0
117.5°	220.4	222.7	235.3	240.8	243.2
120°	241.6	242.6	254.0	260.9	261.7
122.5°	259.9	262.1	272.4	278.7	279.3
125°	279.4	281.4	290.4	296.0	297.3
127.5°	297.6	299.0	306.2	312.2	312.1
130°	314.6	316.0	322.6	327.8	328.3
132.5°	331.2	333.3	336.7	342.9	343.0
135°	347.1	348.7	351.2	356.3	356.4
137.5°	361.9	363.6	364.6	370.0	370.1
140°	375.9	376.6	376.8	382.4	382.1
142.5°	389.0	389.0	389.7	393.7	393.4
145°	401.7	402.1	402.1	404.6	404.3
147.5°	412.7	412.7	413.0	414.3	412.7
150°	423.3	422.6	423.3	424.0	421.5
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)