

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: P1027879

Luminaire Tested: S125DIP-B375D375UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027879
REPORT IS A COMBINATION OF REPORTS P1001995 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

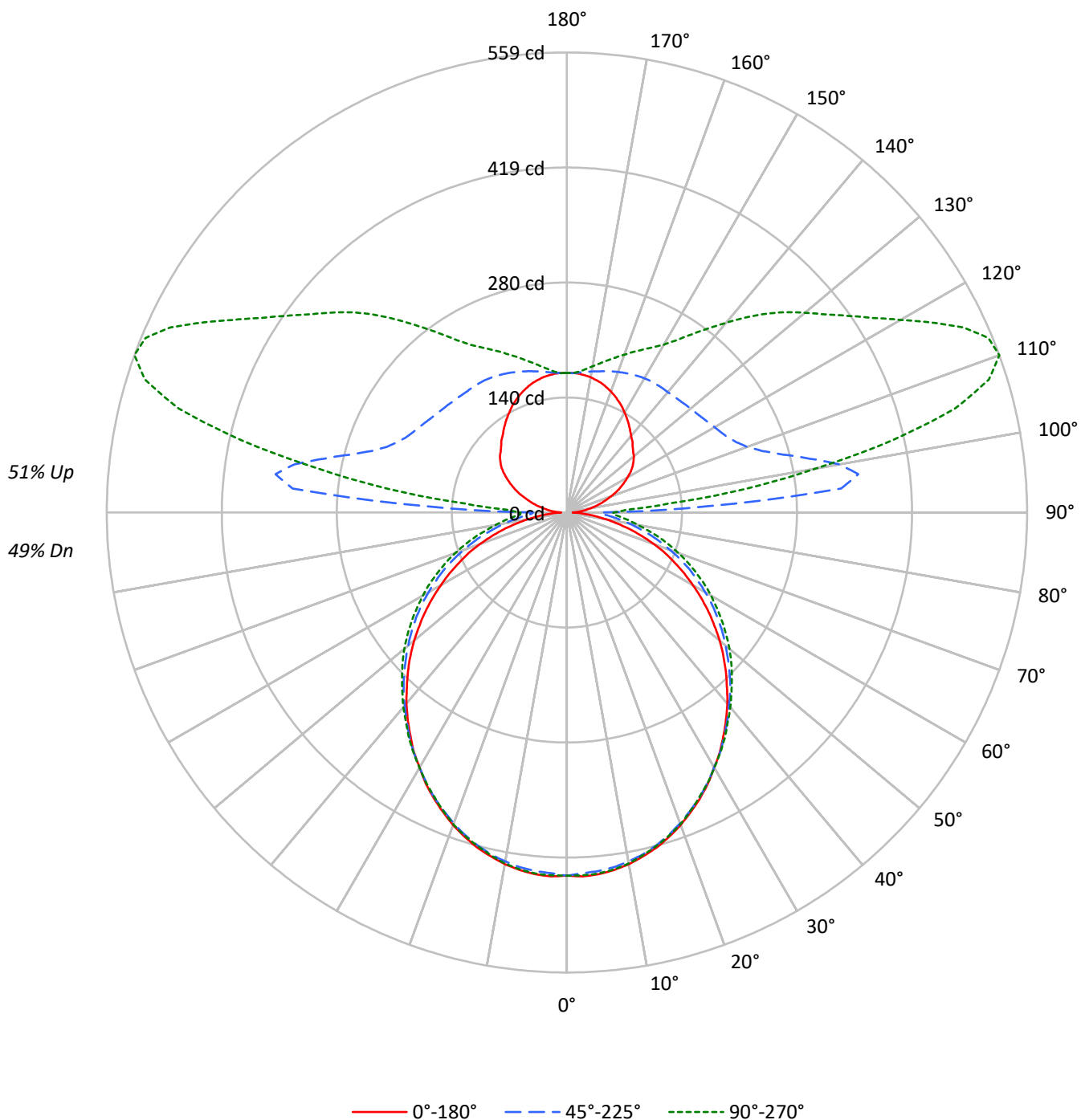
Lumens per Lamp: N/A
Luminaire Lumens: 2643.6 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	39		
2	88	80	74	68	80	74	68	63	62	58	54	51	48	46	41	39	37	32		
3	80	70	63	56	73	65	58	53	54	49	45	45	41	38	36	34	31	27		
4	73	62	54	48	67	57	50	44	48	43	38	40	36	33	32	29	27	23		
5	67	55	47	41	61	51	44	38	43	37	33	36	31	28	29	26	23	20		
6	62	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20	17		
7	57	44	36	31	52	41	34	29	35	29	25	29	25	22	24	21	18	15		
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	14		
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12		
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	19	16	13	11		

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	4.5
20°-30°	176.3	6.7
30°-40°	208.8	7.9
40°-50°	215.8	8.2
50°-60°	198.8	7.5
60°-70°	160.7	6.1
70°-80°	107.6	4.1
80°-90°	56.3	2.1
90°-100°	159.0	6.0
100°-110°	288.3	10.9
110°-120°	263.1	10.0
120°-130°	209.2	7.9
130°-140°	164.9	6.2
140°-150°	122.3	4.6
150°-160°	85.6	3.2
160°-170°	50.4	1.9
170°-180°	16.4	0.6
0°-30°	336.6	12.7
0°-40°	545.3	20.6
0°-60°	960.0	36.3
0°-90°	1284.5	48.6
90°-120°	710.4	26.9
90°-150°	1206.7	45.6
90°-180°	1359.0	51.4
0°-180°	2643.6	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	56	6
95°	17	50	334	178	124	16
105°	42	65	272	520	488	45
115°	72	89	216	453	532	71
125°	97	113	201	358	416	86
135°	113	135	193	295	341	88
145°	131	150	190	239	264	82
155°	149	160	185	209	218	69
165°	163	167	178	188	191	46
175°	169	169	171	173	172	16
180°	170	170	170	170	170	

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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	23.8	41.0	52.6	56.4
92.5°	11.2	46.7	170.1	79.7	71.6
95°	16.9	50.2	334.4	178.5	124.4
97.5°	22.6	51.6	357.0	287.0	218.0
100°	28.7	55.2	336.3	387.5	306.0
102.5°	35.4	59.8	302.2	472.1	405.0
105°	42.5	64.8	271.6	520.3	488.4
107.5°	49.3	70.5	248.7	532.8	537.4
110°	56.7	76.6	232.9	517.2	559.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.5	82.6	223.0	486.8	554.0
115°	71.6	88.8	215.8	453.4	531.8
117.5°	78.1	95.2	210.9	422.6	499.6
120°	84.9	101.8	207.2	396.8	468.1
122.5°	91.6	107.6	203.8	375.2	439.9
125°	97.4	113.4	200.7	358.0	416.5
127.5°	101.8	119.5	198.2	342.5	395.3
130°	106.2	125.6	196.3	327.3	377.7
132.5°	109.2	131.2	194.6	311.0	360.3
135°	113.0	135.2	192.9	295.0	341.4
137.5°	117.8	139.5	191.9	278.8	321.5
140°	121.4	143.1	190.9	263.7	301.0
142.5°	126.2	146.1	190.4	250.5	281.8
145°	131.0	149.6	190.0	238.9	264.3
147.5°	135.7	152.6	189.4	229.0	248.1
150°	140.1	155.3	188.3	221.2	235.6
152.5°	144.9	158.0	187.0	215.2	226.3
155°	149.0	160.3	185.3	209.4	218.4
157.5°	152.8	162.5	183.5	203.9	211.2
160°	156.5	164.2	181.8	198.4	204.0
162.5°	159.6	165.9	179.8	193.4	197.6
165°	162.7	167.1	177.7	188.5	191.4
167.5°	164.7	167.8	175.7	183.9	185.6
170°	166.8	168.7	174.0	179.4	180.5
172.5°	168.2	169.0	171.9	175.8	175.7
175°	169.2	169.2	170.6	172.6	171.9
177.5°	169.9	169.2	169.5	170.6	169.5
180°	169.5	169.5	169.5	169.5	169.5

(END OF REPORT)