

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: P1027924

Luminaire Tested: S125DIP-B375D610UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027924
REPORT IS A COMBINATION OF REPORTS P1002055 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB50-4F0-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

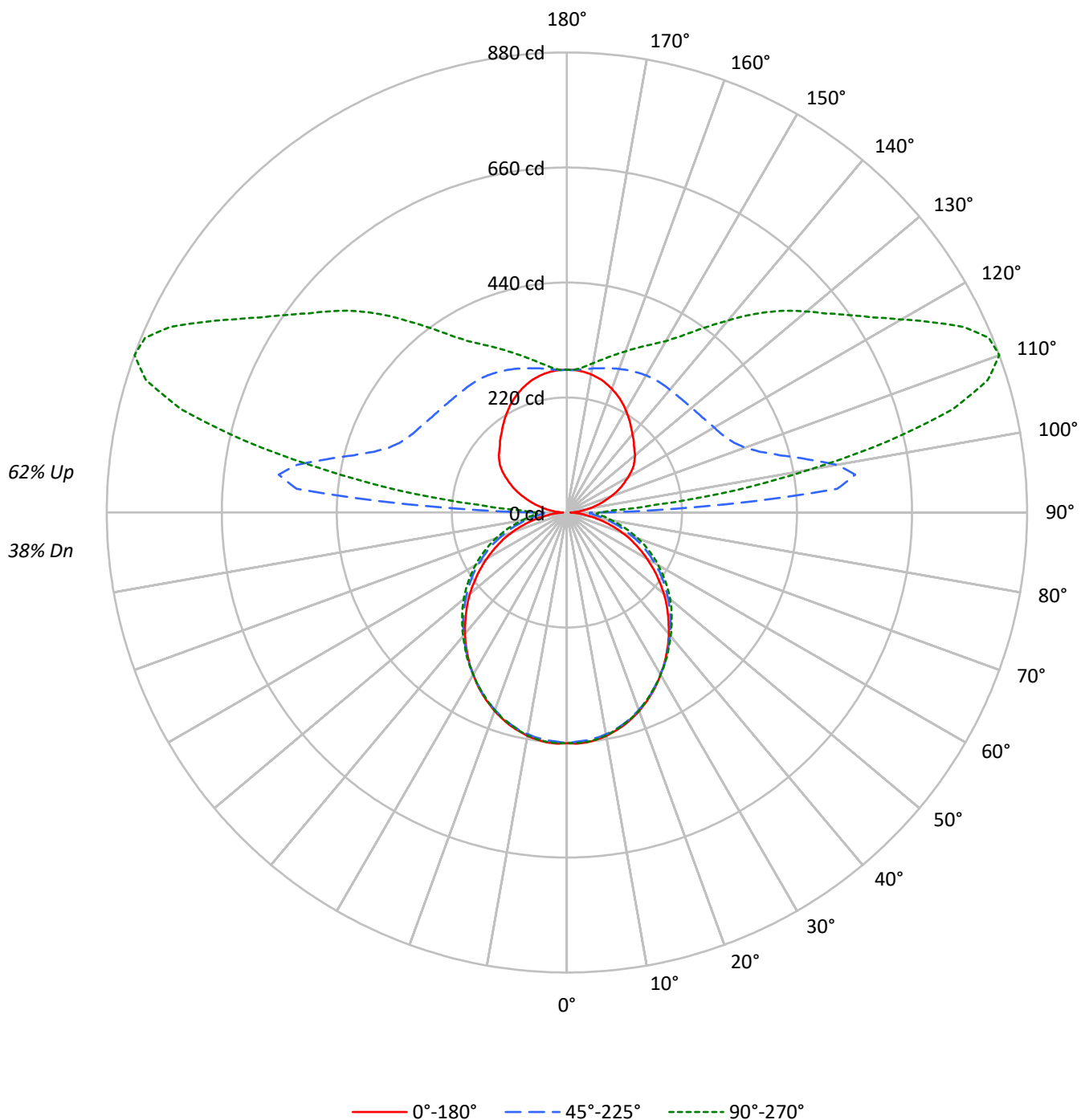
Lumens per Lamp: N/A
Luminaire Lumens: 3420.2 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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

TEST NUMBER: P1027924

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1027924

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D4

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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45
1	94	90	86	82	85	82	78	75	66	64	61	52	50	49	39	38	37
2	86	78	72	67	77	71	66	61	58	54	50	45	42	40	34	32	30
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	27	26
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	30	26	28	24	22	21	19	17
7	55	43	35	30	50	39	33	28	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	21	23	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	16	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	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

TEST NUMBER: P1027924

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.2
10°-20°	118.5	3.5
20°-30°	176.3	5.2
30°-40°	208.8	6.1
40°-50°	215.8	6.3
50°-60°	198.8	5.8
60°-70°	160.7	4.7
70°-80°	107.6	3.1
80°-90°	56.7	1.7
90°-100°	236.6	6.9
100°-110°	449.6	13.1
110°-120°	413.8	12.1
120°-130°	331.1	9.7
130°-140°	262.8	7.7
140°-150°	196.2	5.7
150°-160°	137.6	4.0
160°-170°	81.1	2.4
170°-180°	26.4	0.8
0°-30°	336.6	9.8
0°-40°	545.3	15.9
0°-60°	960.0	28.1
0°-90°	1284.9	37.6
90°-120°	1100.0	32.2
90°-150°	1890.1	55.3
90°-180°	2135.0	62.4
0°-180°	3420.2	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	26	44	57	61	6
95°	24	70	519	262	173	23
105°	66	98	422	817	764	70
115°	114	139	337	714	839	112
125°	156	182	317	566	658	138
135°	181	217	308	469	542	141
145°	210	240	306	383	423	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

TEST NUMBER: P1027924

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D4

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°	7.4	25.8	44.3	57.0	61.1
92.5°	14.3	63.7	253.0	101.8	87.0
95°	23.7	70.5	518.6	262.1	173.3
97.5°	33.2	73.6	556.0	438.0	325.1
100°	43.3	80.4	524.1	600.8	468.2
102.5°	54.3	88.6	470.2	738.3	628.7
105°	66.0	97.7	422.3	817.1	763.9
107.5°	77.2	107.6	386.6	838.2	844.1
110°	89.3	118.2	362.2	814.4	879.8

TEST NUMBER: P1027924

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.9	128.6	347.3	766.8	873.2
115°	113.6	139.4	336.8	714.4	838.7
117.5°	124.2	150.5	330.1	665.9	787.9
120°	135.2	161.6	325.1	625.5	738.6
122.5°	146.3	171.8	320.6	592.2	694.6
125°	155.6	181.6	316.7	565.5	658.3
127.5°	162.9	191.6	313.8	541.9	625.3
130°	170.1	201.6	311.4	518.4	598.3
132.5°	175.2	210.4	309.7	493.3	571.5
135°	181.2	217.3	308.0	469.0	542.2
137.5°	188.9	224.1	307.3	443.8	511.5
140°	195.0	229.9	306.5	420.6	479.6
142.5°	202.7	235.0	306.2	400.5	449.8
145°	210.4	240.5	305.6	382.9	422.8
147.5°	218.2	245.4	304.5	367.8	398.0
150°	225.4	249.8	302.9	355.6	378.6
152.5°	233.1	254.2	300.7	346.0	363.9
155°	239.7	257.8	297.9	336.7	351.3
157.5°	245.7	261.4	295.2	327.9	339.7
160°	251.8	264.2	292.4	319.1	328.2
162.5°	256.7	266.9	289.1	311.2	317.7
165°	261.7	268.8	285.8	303.2	307.8
167.5°	265.0	269.9	282.6	295.7	298.5
170°	268.3	271.3	279.8	288.6	290.2
172.5°	270.5	271.8	276.5	282.8	282.6
175°	272.1	272.1	274.3	277.6	276.5
177.5°	273.2	272.1	272.7	274.3	272.7
180°	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)