

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: P1027877

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027877
REPORT IS A COMBINATION OF REPORTS P1001993 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-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

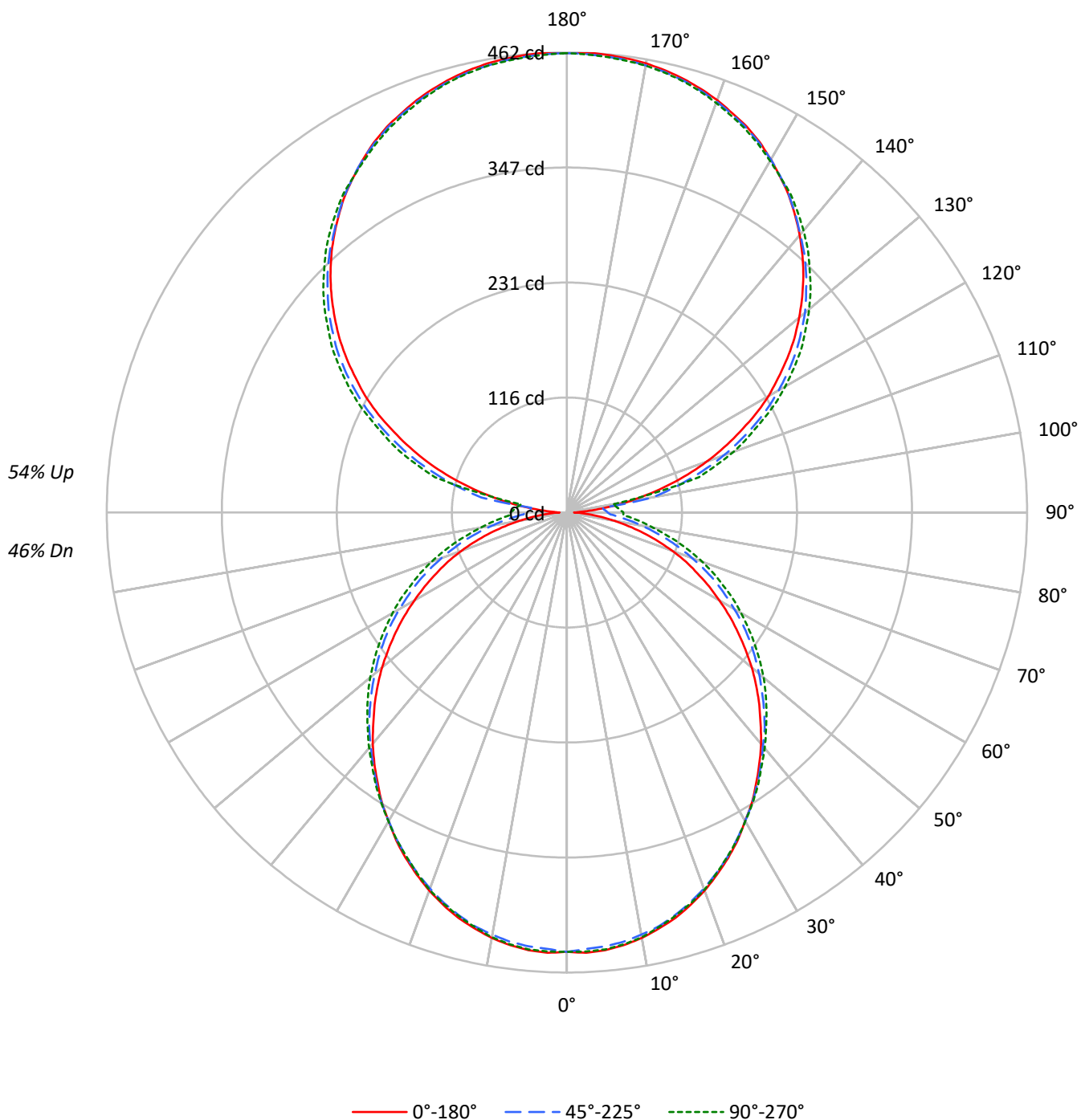
Lumens per Lamp: N/A
Luminaire Lumens: 2785.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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°	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	1.5
10°-20°	118.5	4.3
20°-30°	176.3	6.3
30°-40°	208.8	7.5
40°-50°	215.8	7.7
50°-60°	198.8	7.1
60°-70°	160.7	5.8
70°-80°	107.6	3.9
80°-90°	56.3	2.0
90°-100°	47.0	1.7
100°-110°	127.2	4.6
110°-120°	203.0	7.3
120°-130°	249.4	9.0
130°-140°	262.7	9.4
140°-150°	243.7	8.8
150°-160°	196.5	7.1
160°-170°	127.1	4.6
170°-180°	43.8	1.6
0°-30°	336.6	12.1
0°-40°	545.3	19.6
0°-60°	960.0	34.5
0°-90°	1284.5	46.1
90°-120°	377.2	13.5
90°-150°	1133.0	40.7
90°-180°	1501.0	53.9
0°-180°	2785.0	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°	25	35	37	48	51	28
105°	104	113	126	134	137	111
115°	191	196	208	214	215	190
125°	270	272	281	286	288	241
135°	336	337	340	345	345	259
145°	389	389	389	391	391	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

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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°	12.6	22.0	39.2	50.5	53.8
95°	25.1	35.4	37.1	48.3	51.3
97.5°	41.8	54.2	36.1	45.7	49.2
100°	61.9	71.9	87.2	45.4	46.6
102.5°	82.3	91.9	106.0	115.3	89.2
105°	104.5	112.7	125.7	134.3	137.1
107.5°	127.3	133.3	146.6	155.5	156.8
110°	149.4	154.6	167.4	174.6	178.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.6	175.5	187.6	194.0	196.3
115°	191.4	196.1	207.8	214.2	214.7
117.5°	213.2	215.3	227.5	232.8	235.2
120°	233.8	234.7	245.6	252.4	253.2
122.5°	251.4	253.6	263.4	269.6	270.2
125°	270.2	272.2	280.9	286.4	287.5
127.5°	287.9	289.2	296.2	302.0	301.9
130°	304.3	305.6	312.0	317.1	317.5
132.5°	320.4	322.4	325.7	331.7	331.8
135°	335.7	337.3	339.7	344.6	344.7
137.5°	350.1	351.7	352.8	358.0	358.0
140°	363.6	364.3	364.5	369.9	369.6
142.5°	376.3	376.2	376.9	380.8	380.5
145°	388.6	388.9	388.9	391.4	391.1
147.5°	399.1	399.1	399.5	400.7	399.1
150°	409.4	408.7	409.4	410.1	407.8
152.5°	419.3	417.6	418.3	419.0	416.6
155°	427.5	425.5	426.2	427.2	424.5
157.5°	434.0	433.0	433.0	434.0	431.3
160°	440.9	438.8	439.2	440.5	437.8
162.5°	446.3	444.3	444.6	446.7	443.6
165°	451.1	449.1	449.4	451.5	448.7
167.5°	454.9	452.8	453.2	455.6	452.5
170°	458.0	455.6	455.9	458.7	455.6
172.5°	460.0	457.6	458.3	460.7	457.6
175°	461.4	459.3	459.7	462.4	459.3
177.5°	462.4	460.4	460.7	463.1	460.4
180°	461.4	461.4	461.4	461.4	461.4

(END OF REPORT)