

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: P1027851

Luminaire Tested: S125DIP-B375D375UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027851
REPORT IS A COMBINATION OF REPORTS P1001967 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

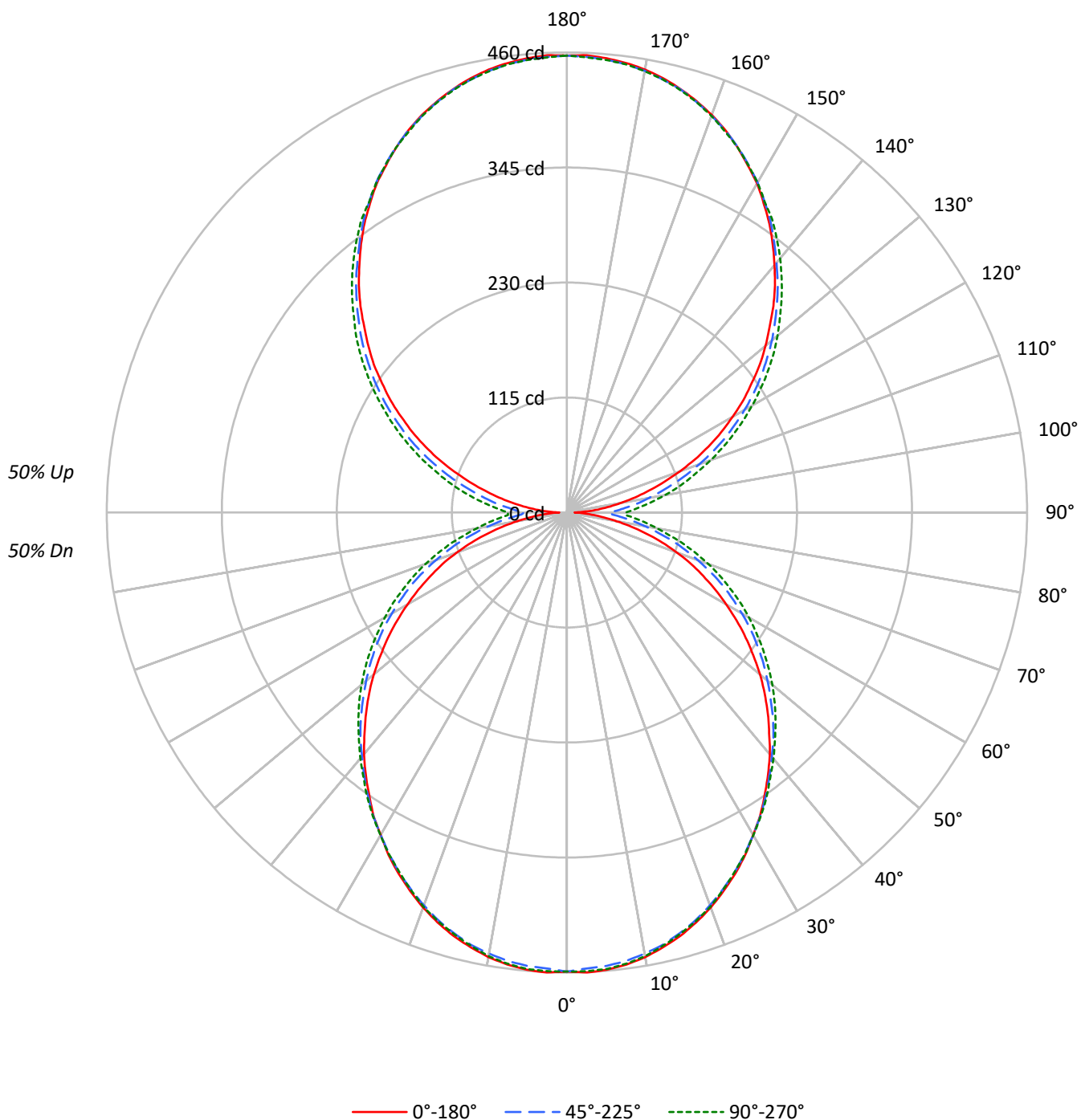
Lumens per Lamp: N/A
Luminaire Lumens: 2698.2 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.6
10°-20°	123.3	4.6
20°-30°	183.4	6.8
30°-40°	217.2	8.0
40°-50°	224.5	8.3
50°-60°	206.8	7.7
60°-70°	167.2	6.2
70°-80°	111.9	4.1
80°-90°	58.6	2.2
90°-100°	63.0	2.3
100°-110°	114.3	4.2
110°-120°	169.2	6.3
120°-130°	210.7	7.8
130°-140°	229.8	8.5
140°-150°	222.2	8.2
150°-160°	185.9	6.9
160°-170°	123.6	4.6
170°-180°	43.3	1.6
0°-30°	350.1	13.0
0°-40°	567.3	21.0
0°-60°	998.6	37.0
0°-90°	1336.2	49.5
90°-120°	346.5	12.8
90°-150°	1009.2	37.4
90°-180°	1362.0	50.5
0°-180°	2698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	25	43	55	59	7
95°	29	41	60	73	76	29
105°	85	94	110	121	125	91
115°	156	161	173	181	183	154
125°	226	227	237	243	245	202
135°	292	294	297	303	304	225
145°	353	354	355	357	358	221
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	7.6	24.8	42.6	54.8	58.9
92.5°	17.0	31.8	50.7	63.1	67.0
95°	29.0	41.4	60.3	72.7	76.5
97.5°	41.0	52.1	72.0	83.5	87.1
100°	54.8	64.2	83.2	95.9	99.3
102.5°	69.6	80.0	95.6	108.2	112.0
105°	85.2	94.2	109.8	120.9	125.1
107.5°	102.1	110.2	125.1	135.1	137.8
110°	119.8	127.0	140.7	150.2	153.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.3	143.0	156.7	165.1	167.5
115°	156.0	160.6	173.0	180.7	183.1
117.5°	174.1	176.6	188.6	196.6	198.4
120°	191.1	194.2	205.0	212.6	213.8
122.5°	209.1	210.0	220.9	227.8	229.4
125°	225.5	227.2	236.6	243.0	244.9
127.5°	243.2	243.8	251.8	258.2	260.2
130°	259.2	260.5	267.5	273.4	275.0
132.5°	274.7	277.9	282.1	288.0	288.7
135°	291.8	293.5	297.0	302.9	303.6
137.5°	307.8	309.5	312.0	317.8	317.8
140°	322.7	324.4	325.9	331.6	331.6
142.5°	338.0	338.9	340.3	344.8	344.8
145°	352.9	353.8	354.9	357.2	357.9
147.5°	366.3	367.3	368.0	370.0	368.1
150°	380.1	379.8	381.2	381.2	381.0
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)