

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: P1027791

Luminaire Tested: S125DIP-B375D1090UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027791
REPORT IS A COMBINATION OF REPORTS P1001877 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

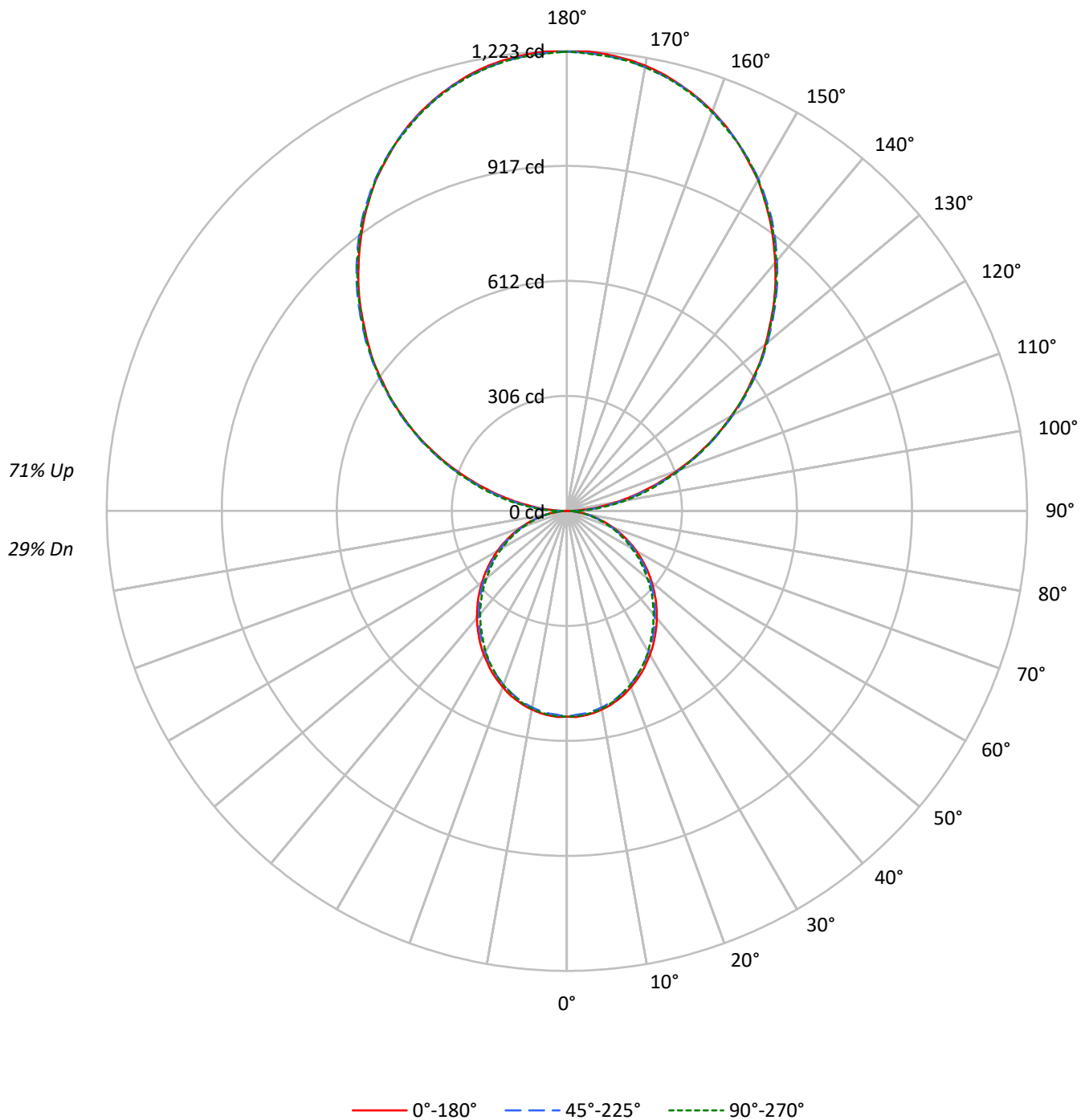
Lumens per Lamp: N/A
Luminaire Lumens: 4833.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	67	76	70	65	60	55	52	49	41	39	37	29	28	26
3	77	68	61	55	69	61	55	50	48	44	41	37	34	31	26	24	22
4	71	60	53	47	63	54	48	43	43	38	35	33	29	27	23	21	19
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	21	18	17
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	19	16	15
7	55	43	35	30	49	39	32	27	31	26	23	24	20	18	17	15	13
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.1
10°-20°	145.7	3.0
20°-30°	215.1	4.5
30°-40°	251.0	5.2
40°-50°	252.1	5.2
50°-60°	221.3	4.6
60°-70°	164.8	3.4
70°-80°	94.1	1.9
80°-90°	29.1	0.6
90°-100°	81.2	1.7
100°-110°	241.2	5.0
110°-120°	409.1	8.5
120°-130°	538.6	11.1
130°-140°	603.5	12.5
140°-150°	591.6	12.2
150°-160°	496.9	10.3
160°-170°	330.3	6.8
170°-180°	115.6	2.4
0°-30°	412.5	8.5
0°-40°	663.5	13.7
0°-60°	1136.8	23.5
0°-90°	1424.9	29.5
90°-120°	731.6	15.1
90°-150°	2465.3	51.0
90°-180°	3408.0	70.5
0°-180°	4833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	1	9	15	20	23	6
95°	62	64	73	80	82	65
105°	217	221	227	233	236	231
115°	410	413	415	414	413	405
125°	598	603	604	602	602	536
135°	777	783	784	784	780	599
145°	942	946	948	948	946	589
155°	1078	1078	1079	1082	1078	496
165°	1172	1170	1171	1175	1169	331
175°	1218	1214	1214	1220	1214	116
180°	1221	1221	1221	1221	1221	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	1.0	8.6	15.2	20.0	22.8
92.5°	28.5	33.3	41.8	48.5	50.4
95°	61.8	63.7	73.2	79.8	81.7
97.5°	95.0	96.0	109.3	115.0	115.9
100°	133.0	133.0	145.4	153.9	155.8
102.5°	173.9	178.7	183.4	192.9	195.8
105°	216.7	221.4	227.1	232.8	235.7
107.5°	263.2	268.0	272.7	275.6	275.6
110°	311.7	316.5	319.3	322.2	321.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.1	363.0	366.8	367.8	365.9
115°	409.6	413.4	415.3	414.3	413.4
117.5°	459.0	459.9	461.8	462.8	459.0
120°	504.6	509.4	510.3	510.3	506.5
122.5°	554.0	555.0	557.8	556.9	554.0
125°	597.7	603.4	604.4	602.5	601.5
127.5°	646.2	649.1	650.0	649.1	647.2
130°	689.0	693.7	695.6	694.7	692.8
132.5°	731.7	740.3	739.3	738.4	735.5
135°	777.3	783.0	784.0	784.0	780.2
137.5°	820.1	825.8	827.7	828.7	823.9
140°	861.0	865.7	868.6	870.5	865.7
142.5°	901.8	905.6	909.4	910.4	905.6
145°	941.7	945.6	948.4	948.4	945.6
147.5°	978.8	981.7	983.6	986.4	978.8
150°	1015.9	1014.9	1018.7	1018.7	1016.8
152.5°	1046.3	1048.2	1049.1	1052.0	1048.2
155°	1077.6	1077.6	1078.6	1082.4	1077.6
157.5°	1106.2	1104.3	1105.2	1109.0	1102.4
160°	1130.9	1128.0	1129.0	1132.8	1128.0
162.5°	1152.7	1150.8	1150.8	1155.6	1149.9
165°	1171.7	1169.8	1170.8	1174.6	1168.9
167.5°	1188.8	1185.0	1185.0	1190.7	1185.0
170°	1202.1	1198.3	1198.3	1204.0	1197.4
172.5°	1211.6	1207.8	1207.8	1213.5	1207.8
175°	1218.3	1214.5	1214.5	1220.2	1213.5
177.5°	1223.0	1219.2	1218.3	1224.0	1217.3
180°	1221.1	1221.1	1221.1	1221.1	1221.1

(END OF REPORT)