

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: P1027435

Luminaire Tested: S125DIP-B1090D375UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027435
REPORT IS A COMBINATION OF REPORTS P1001395 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB50-4F0-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

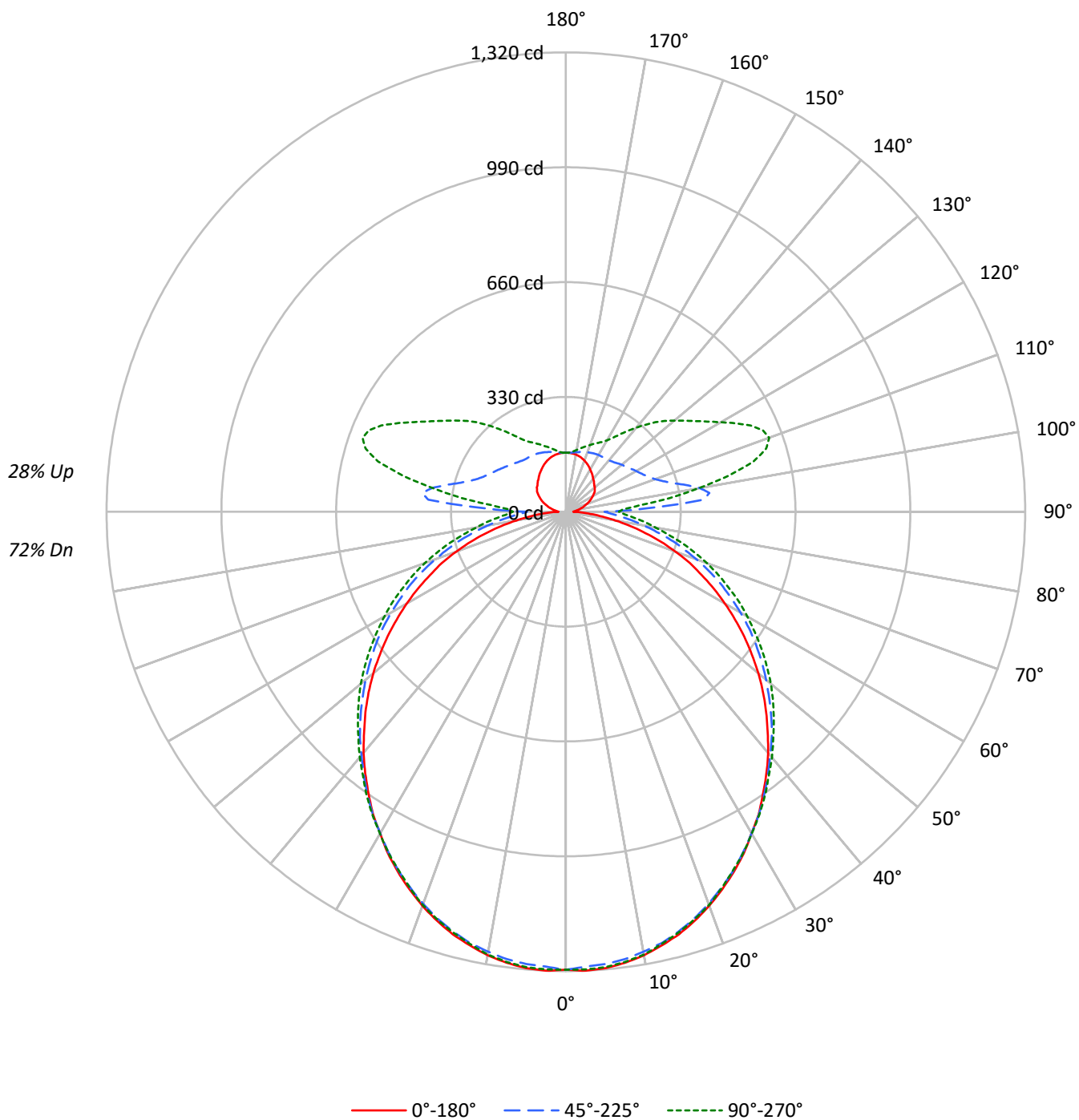
Lumens per Lamp: N/A
Luminaire Lumens: 5353.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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
RCR																	
0	112	112	112	112	106	106	106	106	95	95	95		85	85	85		76
1	102	97	92	88	96	92	88	84	82	79	76		73	71	69		65
2	92	84	77	71	87	80	73	68	71	67	62		64	60	57		57
3	84	73	65	59	79	70	62	57	63	57	52		56	52	48		50
4	77	65	56	50	72	62	54	48	56	49	44		50	45	41		45
5	70	58	49	43	66	55	47	41	50	43	38		45	39	35		40
6	65	52	43	37	61	49	41	36	45	38	33		40	35	31		36
7	60	47	38	32	57	45	37	31	41	34	29		37	31	27		33
8	56	43	34	29	53	41	33	28	37	31	26		34	28	24		30
9	52	39	31	26	49	37	30	25	34	28	23		31	26	22		28
10	49	36	28	23	46	34	27	22	31	25	21		29	23	20		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.3
10°-20°	353.5	6.6
20°-30°	525.7	9.8
30°-40°	622.6	11.6
40°-50°	643.7	12.0
50°-60°	593.0	11.1
60°-70°	479.3	9.0
70°-80°	320.7	6.0
80°-90°	166.5	3.1
90°-100°	221.0	4.1
100°-110°	334.0	6.2
110°-120°	293.7	5.5
120°-130°	226.5	4.2
130°-140°	172.4	3.2
140°-150°	123.8	2.3
150°-160°	85.6	1.6
160°-170°	50.4	0.9
170°-180°	16.4	0.3
0°-30°	1003.8	18.8
0°-40°	1626.4	30.4
0°-60°	2863.1	53.5
0°-90°	3829.6	71.5
90°-120°	848.8	15.9
90°-150°	1371.6	25.6
90°-180°	1524.0	28.5
0°-180°	5353.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	21	65	111	143	152	15
95°	28	84	397	260	212	25
105°	50	86	319	585	559	53
115°	77	100	249	502	586	76
125°	101	116	220	391	454	89
135°	115	136	200	313	364	89
145°	132	150	190	243	272	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°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	20.9	65.0	111.3	142.6	152.4
92.5°	23.2	83.6	237.0	165.4	163.4
95°	28.1	83.6	397.0	260.0	211.9
97.5°	32.9	82.6	416.1	364.2	301.2
100°	38.1	82.6	391.2	460.4	384.0
102.5°	44.0	84.8	353.6	540.7	478.8
105°	50.2	86.3	318.8	584.7	558.7
107.5°	56.1	89.4	292.4	593.7	603.5
110°	62.7	92.8	273.2	573.8	621.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.5	96.3	259.9	539.1	612.3
115°	76.7	100.0	249.2	502.2	585.8
117.5°	82.4	103.8	241.0	467.2	550.2
120°	89.2	108.6	233.8	437.8	514.4
122.5°	95.1	112.0	226.9	412.2	481.9
125°	100.9	116.0	220.4	391.4	454.3
127.5°	104.4	121.2	214.5	371.7	429.6
130°	108.8	127.4	210.0	353.0	407.8
132.5°	110.9	132.8	204.9	333.2	386.0
135°	114.7	136.2	199.7	313.0	363.7
137.5°	119.5	140.4	196.2	293.2	339.5
140°	122.3	144.0	192.6	274.8	315.5
142.5°	127.1	146.1	190.4	258.2	293.0
145°	131.9	149.6	190.0	243.2	272.0
147.5°	135.7	152.6	189.4	230.7	251.6
150°	140.1	155.3	188.3	221.2	236.5
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)