

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: P1026718

Luminaire Tested: S125DIP-B1090D375UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026718
REPORT IS A COMBINATION OF REPORTS P1001357 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

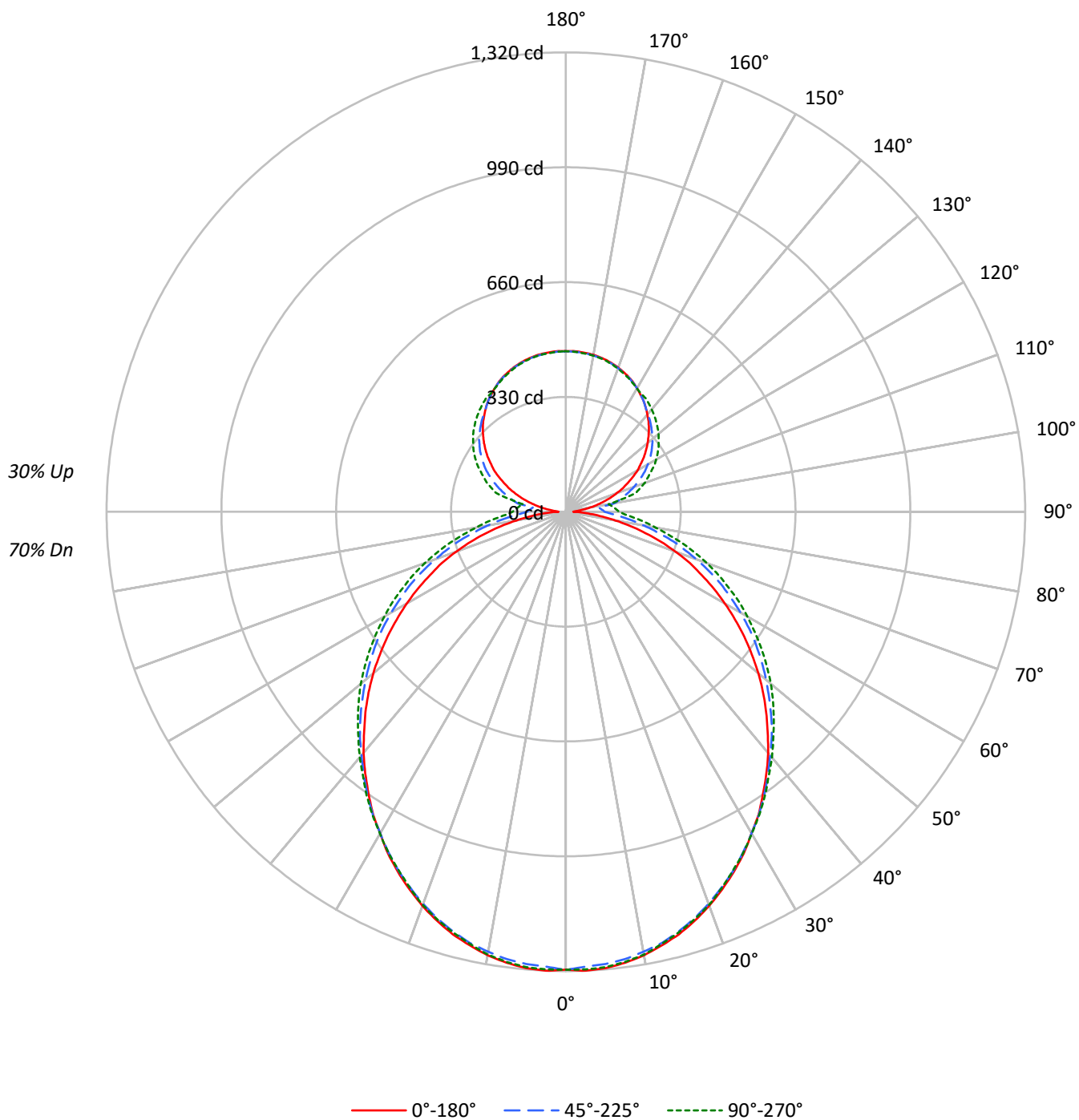
Lumens per Lamp: N/A
Luminaire Lumens: 5495.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	30	10
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	101	96	92	88	95	91	87	84	81	78	75	72	70	68	64	62	61
2	92	84	77	71	86	79	73	68	71	66	62	63	59	56	56	53	50
3	83	73	65	59	78	69	62	56	62	56	51	55	51	47	49	45	42
4	76	65	56	50	72	61	54	48	55	49	44	49	44	40	44	40	36
5	70	58	49	42	66	55	47	41	49	43	38	44	39	34	39	35	31
6	65	52	43	37	61	49	41	35	44	38	33	40	34	30	36	31	28
7	60	47	38	32	56	44	37	31	40	34	29	36	31	27	32	28	24
8	55	42	34	29	52	40	33	28	37	30	26	33	28	24	30	25	22
9	52	39	31	26	49	37	30	25	34	27	23	31	25	21	28	23	20
10	48	36	28	23	46	34	27	22	31	25	21	28	23	19	26	21	18

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	6.4
20°-30°	525.7	9.6
30°-40°	622.6	11.3
40°-50°	643.7	11.7
50°-60°	593.0	10.8
60°-70°	479.3	8.7
70°-80°	320.7	5.8
80°-90°	166.5	3.0
90°-100°	109.0	2.0
100°-110°	173.0	3.1
110°-120°	233.6	4.3
120°-130°	266.8	4.9
130°-140°	270.3	4.9
140°-150°	245.2	4.5
150°-160°	196.5	3.6
160°-170°	127.1	2.3
170°-180°	43.8	0.8
0°-30°	1003.8	18.3
0°-40°	1626.4	29.6
0°-60°	2863.1	52.1
0°-90°	3829.6	69.7
90°-120°	515.6	9.4
90°-150°	1297.9	23.6
90°-180°	1665.0	30.3
0°-180°	5495.0	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	153	15
95°	36	69	100	130	139	37
105°	112	134	173	199	207	119
115°	196	207	241	263	269	195
125°	274	275	301	320	325	244
135°	337	338	346	363	367	260
145°	390	389	389	396	399	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°	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	142.7	152.7
92.5°	24.6	58.9	106.1	136.2	145.6
95°	36.3	68.8	99.7	129.8	138.8
97.5°	52.1	85.1	95.2	122.9	132.4
100°	71.3	99.4	142.1	118.3	124.6
102.5°	90.9	116.8	157.4	183.9	163.0
105°	112.2	134.2	172.9	198.7	207.4
107.5°	134.1	152.2	190.3	216.4	222.9
110°	155.4	170.9	207.7	231.2	240.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.6	189.2	224.5	246.3	254.6
115°	196.5	207.3	241.2	263.0	268.7
117.5°	217.5	223.9	257.6	277.4	285.8
120°	238.1	241.5	272.2	293.5	299.5
122.5°	254.9	257.9	286.5	306.5	312.2
125°	273.7	274.8	300.6	319.8	325.3
127.5°	290.5	290.9	312.5	331.2	336.2
130°	306.9	307.3	325.7	342.8	347.6
132.5°	322.1	324.1	336.0	354.0	357.5
135°	337.4	338.2	346.5	362.6	367.0
137.5°	351.8	352.6	357.1	372.5	376.0
140°	364.5	365.2	366.2	381.1	384.1
142.5°	377.2	376.2	376.9	388.5	391.7
145°	389.5	388.9	388.9	395.7	398.8
147.5°	399.1	399.1	399.5	402.4	402.6
150°	409.4	408.7	409.4	410.1	408.7
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)