

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: P1027390

Luminaire Tested: S125DIP-B1090D1270UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027390
REPORT IS A COMBINATION OF REPORTS P1001335 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB50-4F0-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

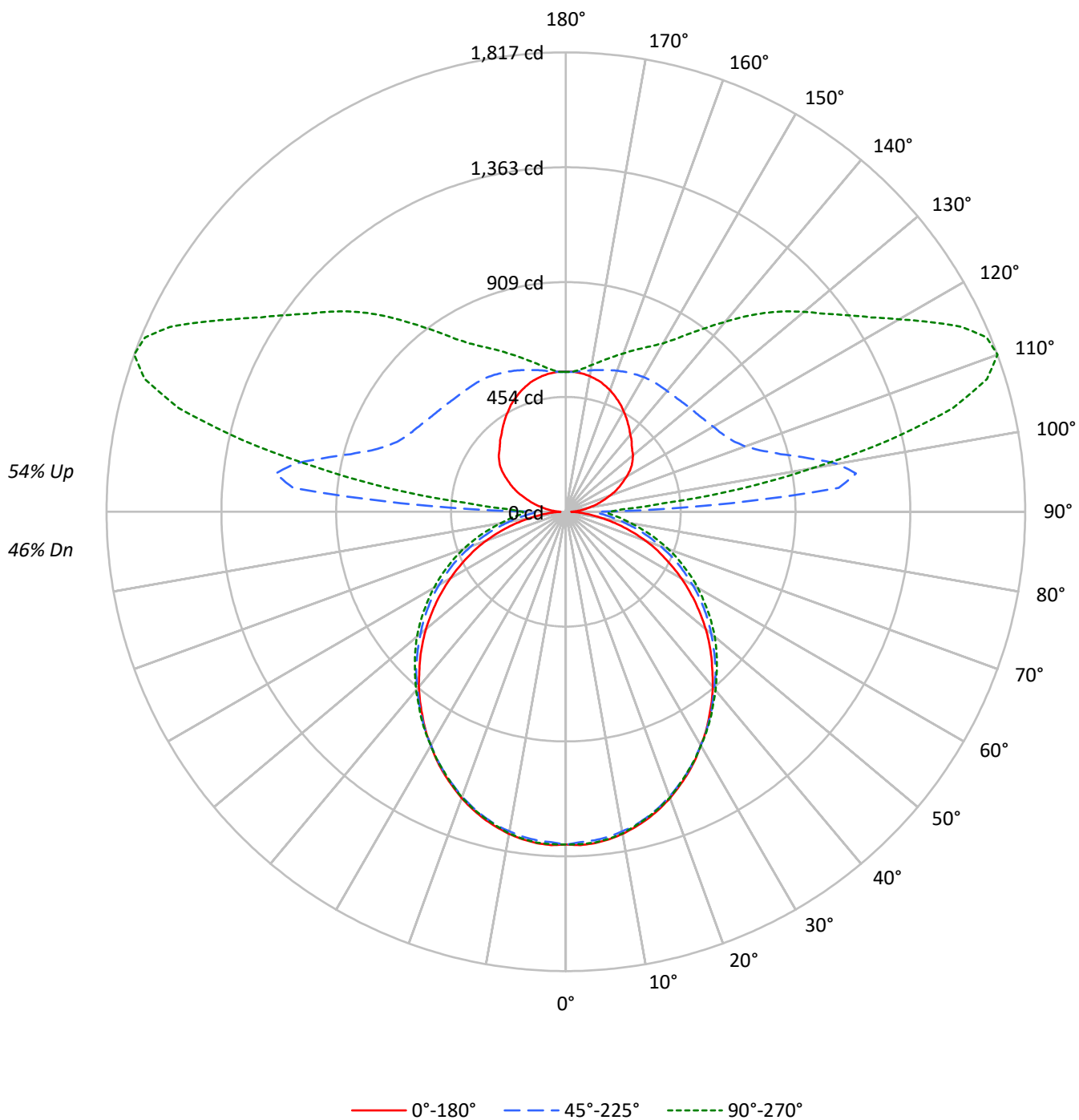
Lumens per Lamp: N/A
Luminaire Lumens: 8247.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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
RCR																				
0	106	106	106	106	98	98	98	98		81	81	81		67	67	67		53	53	53
1	96	92	88	84	88	84	81	77		70	68	65		57	56	54		46	44	43
2	87	80	73	68	80	73	68	63		61	57	54		50	47	45		40	38	36
3	80	70	62	56	73	64	58	52		54	49	45		44	40	37		35	32	30
4	73	62	54	47	66	57	50	44		48	42	38		39	35	32		31	28	26
5	67	55	46	40	61	51	43	38		42	37	33		35	31	27		28	25	22
6	61	49	41	35	56	45	38	33		38	32	28		32	27	24		25	22	20
7	57	44	36	30	52	41	34	29		35	29	25		29	24	21		23	20	17
8	52	40	32	27	48	37	30	25		31	26	22		26	22	19		21	18	16
9	49	37	29	24	45	34	27	22		29	23	20		24	20	17		20	16	14
10	46	33	26	21	42	31	24	20		26	21	18		22	18	15		18	15	13

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	1.5
10°-20°	353.5	4.3
20°-30°	525.7	6.4
30°-40°	622.6	7.5
40°-50°	643.7	7.8
50°-60°	593.0	7.2
60°-70°	479.3	5.8
70°-80°	320.7	3.9
80°-90°	168.0	2.0
90°-100°	510.4	6.2
100°-110°	935.1	11.3
110°-120°	855.2	10.4
120°-130°	680.8	8.3
130°-140°	537.5	6.5
140°-150°	399.4	4.8
150°-160°	279.6	3.4
160°-170°	164.8	2.0
170°-180°	53.6	0.6
0°-30°	1003.8	12.2
0°-40°	1626.4	19.7
0°-60°	2863.1	34.7
0°-90°	3831.1	46.5
90°-120°	2300.8	27.9
90°-150°	3918.5	47.5
90°-180°	4416.0	53.5
0°-180°	8247.6	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°	22	72	124	159	170	17
95°	54	159	1084	572	394	52
105°	138	209	880	1691	1585	145
115°	233	289	700	1474	1729	230
125°	318	370	653	1165	1355	282
135°	369	442	629	961	1112	286
145°	428	488	621	780	862	268
155°	487	524	605	684	714	224
165°	532	546	581	616	625	150
175°	553	553	557	564	562	53
180°	554	554	554	554	554	

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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°	21.7	72.0	123.7	159.0	170.2
92.5°	34.8	147.1	546.1	247.9	220.7
95°	53.6	159.1	1083.5	571.5	394.0
97.5°	72.4	164.3	1157.6	926.7	700.2
100°	92.4	176.4	1090.9	1255.4	988.3
102.5°	114.5	192.0	979.6	1532.4	1312.5
105°	137.8	208.8	880.5	1690.7	1585.3
107.5°	159.9	227.8	806.1	1731.8	1746.4
110°	184.3	247.8	755.1	1681.4	1817.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	210.0	268.0	723.2	1582.8	1801.7
115°	233.3	288.7	700.2	1474.2	1729.4
117.5°	254.4	309.9	685.0	1374.1	1624.8
120°	276.7	331.4	673.1	1290.2	1522.4
122.5°	298.9	351.0	662.3	1220.6	1431.0
125°	317.8	370.2	652.8	1164.7	1355.4
127.5°	332.2	390.0	645.3	1114.7	1286.5
130°	346.7	410.2	639.2	1065.4	1229.9
132.5°	356.6	428.0	634.1	1012.8	1173.2
135°	368.8	441.8	628.9	961.2	1112.1
137.5°	384.5	455.8	626.2	908.5	1047.7
140°	396.6	467.5	623.4	859.8	981.1
142.5°	412.2	477.4	621.9	817.3	919.0
145°	427.8	488.5	620.8	779.8	862.4
147.5°	443.3	498.6	618.6	747.9	810.3
150°	457.8	507.5	615.2	722.4	769.5
152.5°	473.4	516.4	610.8	702.9	739.2
155°	486.8	523.7	605.2	684.0	713.5
157.5°	499.1	531.0	599.6	666.0	690.1
160°	511.4	536.5	594.0	648.2	666.6
162.5°	521.4	542.1	587.3	632.0	645.4
165°	531.5	546.0	580.6	615.8	625.3
167.5°	538.2	548.2	573.9	600.8	606.3
170°	544.9	551.0	568.3	586.2	589.6
172.5°	549.4	552.2	561.6	574.4	573.9
175°	552.7	552.7	557.2	563.9	561.6
177.5°	554.9	552.7	553.8	557.2	553.8
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)