

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: P1027343

Luminaire Tested: S125DIP-B1090D1090UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027343
REPORT IS A COMBINATION OF REPORTS P1001273 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

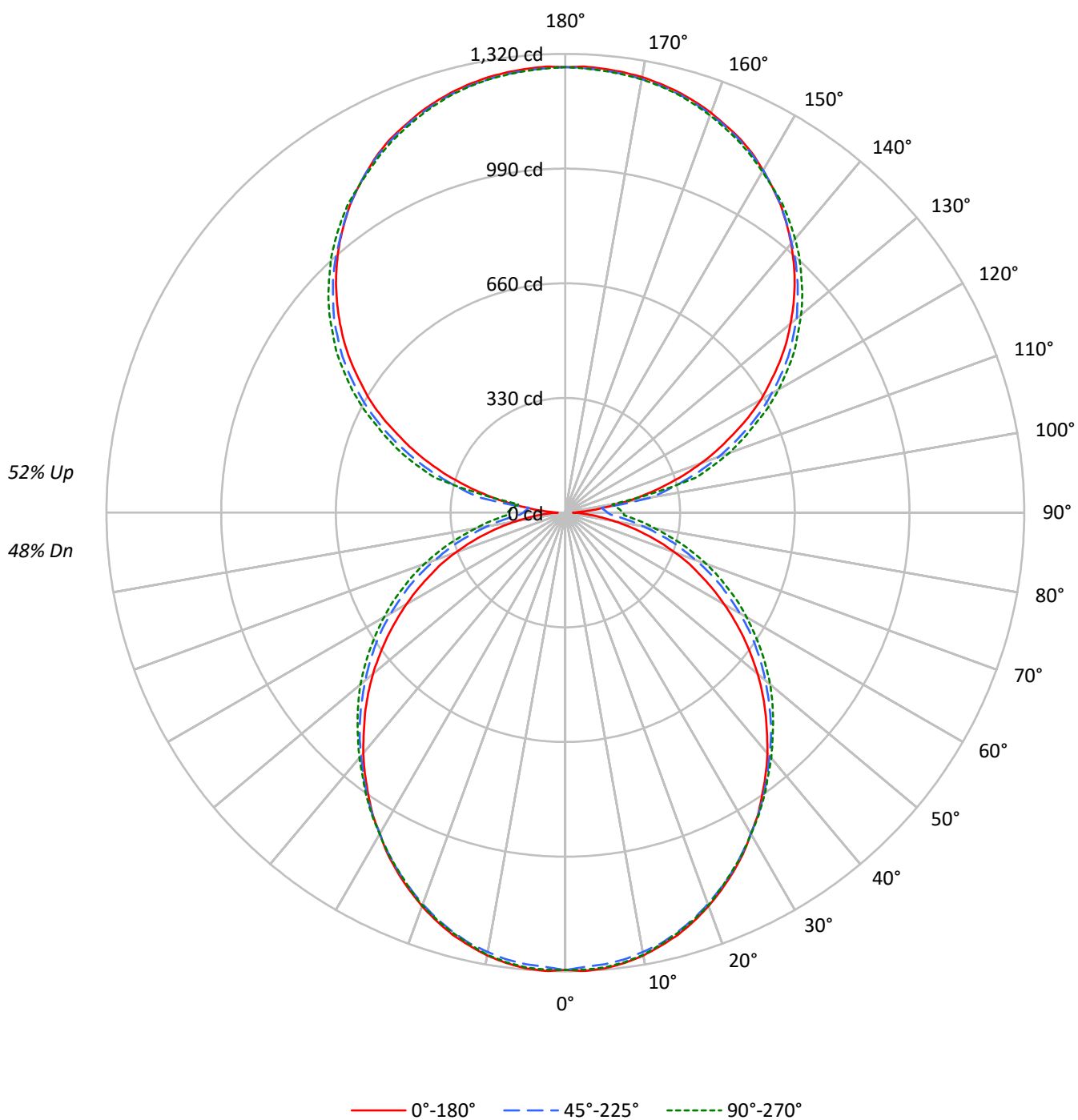
Lumens per Lamp: N/A
Luminaire Lumens: 8017.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	92	88	84	89	85	81	78	71	68	66	58	56	55	47	45	44
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	43	38	40	36	32	32	29	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	29	25	23
6	61	49	41	35	56	45	38	33	39	33	28	32	28	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	23	18	15	19	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	1.6
10°-20°	353.5	4.4
20°-30°	525.7	6.6
30°-40°	622.6	7.8
40°-50°	643.7	8.0
50°-60°	593.0	7.4
60°-70°	479.3	6.0
70°-80°	320.7	4.0
80°-90°	167.7	2.1
90°-100°	136.9	1.7
100°-110°	358.2	4.5
110°-120°	567.1	7.1
120°-130°	694.9	8.7
130°-140°	730.7	9.1
140°-150°	677.4	8.4
150°-160°	546.1	6.8
160°-170°	353.2	4.4
170°-180°	121.8	1.5
0°-30°	1003.8	12.5
0°-40°	1626.4	20.3
0°-60°	2863.1	35.7
0°-90°	3830.8	47.8
90°-120°	1062.2	13.2
90°-150°	3165.2	39.5
90°-180°	4186.0	52.2
0°-180°	8017.1	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	70	121	156	167	17
95°	71	102	109	143	152	80
105°	291	316	354	380	388	308
115°	532	546	581	600	602	528
125°	751	757	782	799	803	671
135°	933	937	944	959	960	719
145°	1080	1080	1080	1088	1087	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

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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°	21.6	70.5	121.0	155.5	167.3
92.5°	36.2	65.0	115.8	149.0	159.0
95°	71.0	101.6	109.4	142.6	151.6
97.5°	117.2	153.9	106.1	135.1	145.2
100°	172.9	202.9	248.0	133.5	137.4
102.5°	229.6	257.9	299.8	327.5	255.5
105°	291.0	315.5	354.2	380.0	388.1
107.5°	354.3	372.4	411.7	438.5	442.5
110°	415.7	431.2	469.3	491.0	500.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.7	489.1	525.0	544.4	551.5
115°	532.3	546.1	580.6	600.0	602.1
117.5°	592.9	599.3	635.4	651.6	658.7
120°	649.9	652.7	685.3	705.3	708.3
122.5°	699.0	705.0	734.3	753.1	755.1
125°	751.2	756.6	782.4	799.2	802.8
127.5°	800.3	803.7	824.7	842.2	842.3
130°	845.9	849.4	868.3	883.6	885.3
132.5°	890.2	895.9	906.0	924.0	924.4
135°	933.0	937.4	944.5	959.4	960.1
137.5°	972.9	977.3	980.6	996.0	996.5
140°	1010.6	1012.5	1012.8	1028.9	1028.3
142.5°	1045.7	1045.4	1047.3	1058.9	1058.4
145°	1079.9	1080.5	1080.5	1088.0	1087.4
147.5°	1109.1	1109.1	1110.0	1113.6	1109.5
150°	1137.6	1135.7	1137.6	1139.5	1133.2
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)