

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: P1028214

Luminaire Tested: S125DIP-B850D1090UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028214
REPORT IS A COMBINATION OF REPORTS P1002456 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

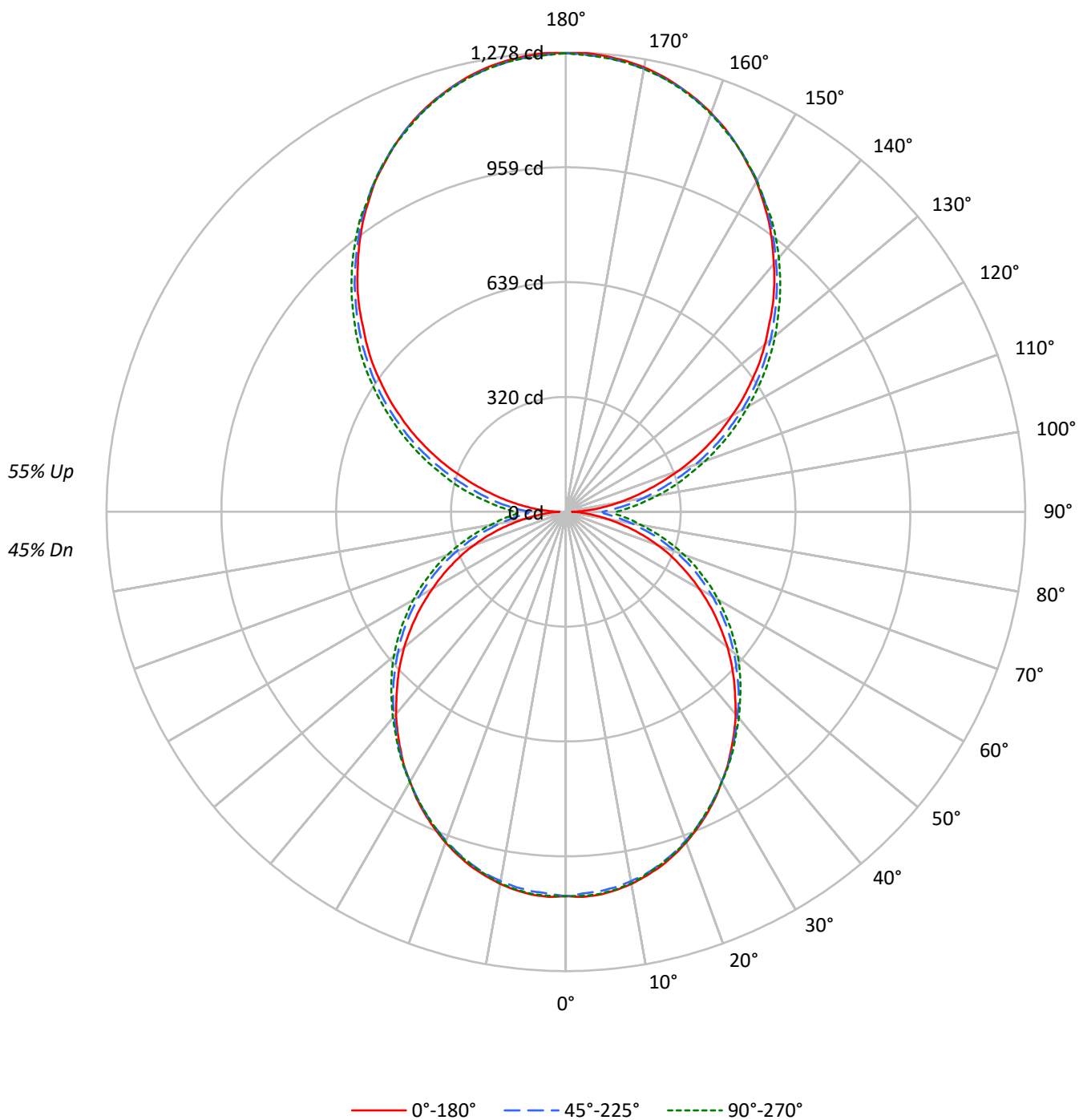
Lumens per Lamp: N/A
Luminaire Lumens: 6875.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	44	42
2	87	79	73	68	80	73	67	63	61	57	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	30
4	72	61	53	47	66	57	49	44	47	42	38	39	35	31	31	28	25
5	66	55	46	40	61	50	43	38	42	37	32	35	30	27	27	24	22
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	19
7	56	44	36	30	52	41	34	28	34	29	25	28	24	21	23	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.5
10°-20°	287.3	4.2
20°-30°	427.2	6.2
30°-40°	505.9	7.4
40°-50°	523.1	7.6
50°-60°	481.9	7.0
60°-70°	389.5	5.7
70°-80°	260.6	3.8
80°-90°	136.7	2.0
90°-100°	160.7	2.3
100°-110°	307.9	4.5
110°-120°	464.8	6.8
120°-130°	583.8	8.5
130°-140°	639.7	9.3
140°-150°	619.8	9.0
150°-160°	519.1	7.6
160°-170°	345.0	5.0
170°-180°	120.7	1.8
0°-30°	815.7	11.9
0°-40°	1321.6	19.2
0°-60°	2326.6	33.8
0°-90°	3113.4	45.3
90°-120°	933.4	13.6
90°-150°	2776.7	40.4
90°-180°	3762.0	54.7
0°-180°	6875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	59	102	131	141	16
95°	78	107	153	183	192	78
105°	236	258	295	322	332	251
115°	434	445	475	493	498	430
125°	629	633	655	670	674	563
135°	814	819	827	841	842	628
145°	985	988	991	996	997	615
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	17.8	59.2	101.9	130.9	141.2
92.5°	44.5	79.8	125.5	155.4	164.8
95°	78.1	107.4	152.9	183.0	192.3
97.5°	111.9	138.0	186.5	214.5	222.8
100°	150.5	172.6	219.0	249.9	258.2
102.5°	192.2	217.0	254.5	285.4	294.7
105°	235.7	257.5	294.9	321.8	332.2
107.5°	283.4	303.0	338.4	362.3	368.6
110°	332.9	350.5	382.8	405.7	412.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.5	396.0	428.3	448.2	453.5
115°	434.1	445.4	474.7	492.6	497.9
117.5°	484.7	490.9	519.1	537.9	541.4
120°	532.3	540.5	565.6	583.4	585.7
122.5°	582.9	584.9	611.0	626.8	630.1
125°	628.6	633.4	655.4	670.2	674.5
127.5°	678.1	680.1	698.9	713.6	717.9
130°	722.8	726.7	743.4	757.1	760.4
132.5°	766.4	775.4	784.9	798.6	799.8
135°	814.1	819.0	827.3	840.9	842.3
137.5°	858.8	863.6	869.8	883.4	882.6
140°	900.4	905.3	909.4	922.9	922.1
142.5°	943.0	946.0	950.0	960.4	959.6
145°	984.7	987.7	990.7	995.9	997.1
147.5°	1022.4	1025.4	1027.4	1032.5	1026.6
150°	1061.2	1060.2	1064.1	1064.1	1063.1
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)