

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: P1026745

Luminaire Tested: S125DIP-B1090D850UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026745
REPORT IS A COMBINATION OF REPORTS P1001474 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

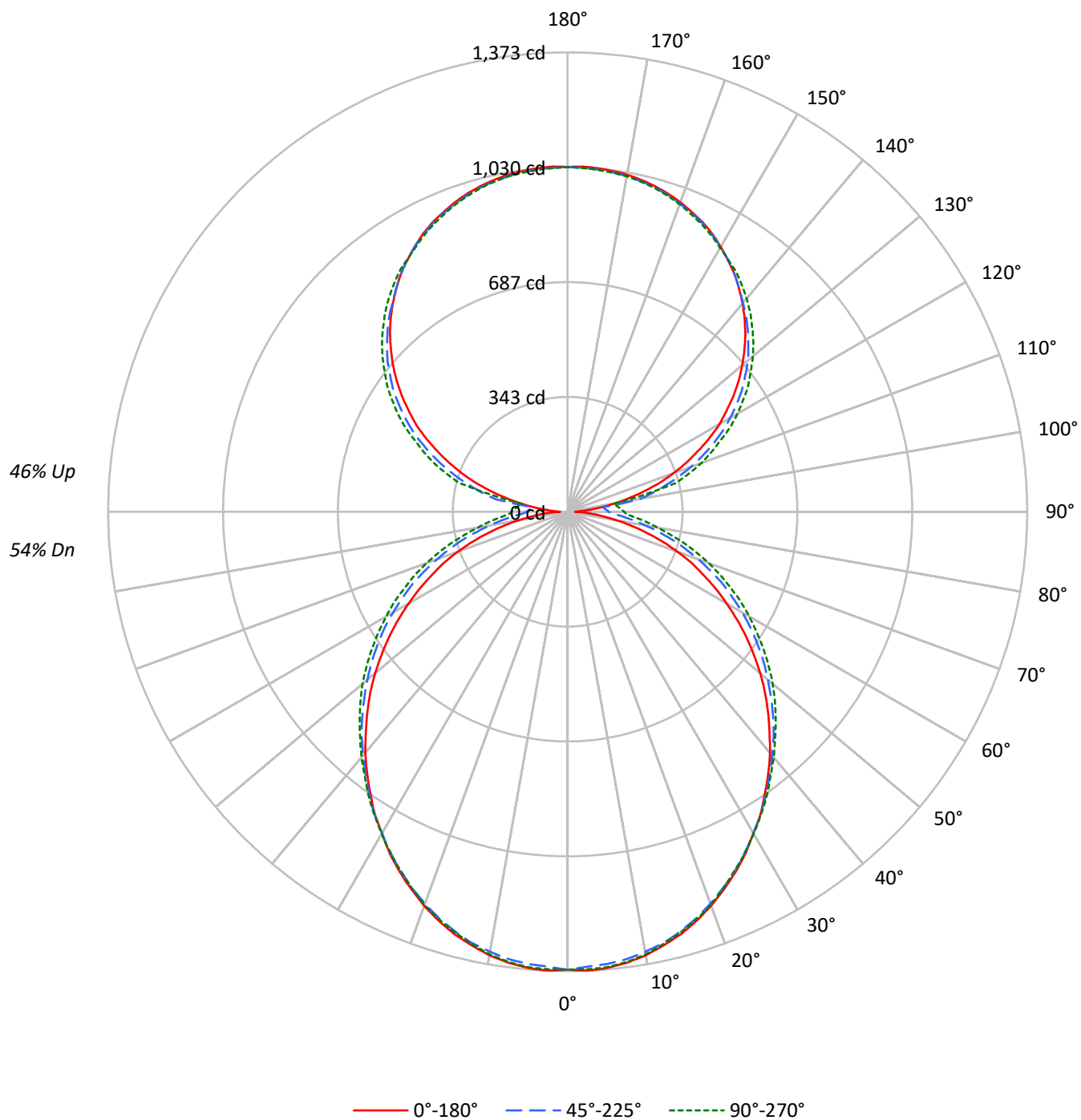
Lumens per Lamp: N/A
Luminaire Lumens: 7407.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	98	93	89	85	90	86	83	79	74	71	69	62	60	58	51	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	42	40
3	81	71	63	57	74	66	59	54	56	51	47	48	44	40	39	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	41	35	57	46	39	34	40	34	30	34	29	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	18	16
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.7
10°-20°	367.7	5.0
20°-30°	546.7	7.4
30°-40°	647.5	8.7
40°-50°	669.4	9.0
50°-60°	616.7	8.3
60°-70°	498.5	6.7
70°-80°	333.6	4.5
80°-90°	173.9	2.3
90°-100°	132.1	1.8
100°-110°	304.1	4.1
110°-120°	466.7	6.3
120°-130°	564.7	7.6
130°-140°	590.1	8.0
140°-150°	545.0	7.4
150°-160°	438.9	5.9
160°-170°	283.9	3.8
170°-180°	97.9	1.3
0°-30°	1043.9	14.1
0°-40°	1691.5	22.8
0°-60°	2977.5	40.2
0°-90°	3983.5	53.8
90°-120°	903.0	12.2
90°-150°	2602.8	35.1
90°-180°	3423.0	46.2
0°-180°	7407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	22	71	122	157	169	17
95°	61	94	110	144	153	67
105°	237	261	301	328	337	251
115°	430	443	479	500	503	426
125°	605	609	636	654	659	540
135°	751	754	762	778	780	579
145°	868	869	869	876	877	543
155°	955	950	952	954	948	440
165°	1008	1003	1004	1008	1002	285
175°	1030	1026	1027	1033	1026	98
180°	1030	1030	1030	1030	1030	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.3	71.3	122.2	156.9	168.6
92.5°	33.3	65.3	116.9	150.2	160.4
95°	60.9	93.6	110.2	143.5	152.9
97.5°	97.8	134.6	106.4	136.1	146.2
100°	142.4	172.8	218.8	133.2	138.1
102.5°	187.6	216.1	259.3	287.6	231.5
105°	236.7	261.1	301.4	328.2	336.9
107.5°	287.2	306.0	346.5	374.1	379.1
110°	336.3	352.4	391.6	414.8	424.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	383.7	398.1	435.1	456.2	464.0
115°	429.8	442.9	478.6	499.7	503.1
117.5°	478.0	484.7	521.4	539.6	547.5
120°	523.9	527.1	560.3	581.6	585.8
122.5°	563.0	568.2	598.4	618.4	621.9
125°	605.1	609.0	635.9	654.3	658.7
127.5°	644.1	646.7	668.7	687.3	689.3
130°	680.8	683.3	702.9	719.4	722.3
132.5°	716.2	720.8	731.9	750.7	752.3
135°	750.6	753.7	761.6	777.6	779.7
137.5°	782.6	785.8	789.7	805.8	807.4
140°	812.6	814.1	814.7	831.0	831.8
142.5°	840.8	840.3	841.8	853.9	854.6
145°	868.3	868.6	868.6	876.0	876.8
147.5°	891.5	891.5	892.2	895.7	893.0
150°	914.4	912.9	914.4	915.9	911.1
152.5°	936.5	932.7	934.2	935.8	930.4
155°	954.9	950.3	951.8	954.1	948.0
157.5°	969.4	967.1	967.1	969.4	963.3
160°	984.7	980.1	980.8	983.9	977.8
162.5°	996.9	992.3	993.1	997.7	990.8
165°	1007.6	1003.0	1003.8	1008.3	1002.2
167.5°	1016.0	1011.4	1012.2	1017.5	1010.6
170°	1022.9	1017.5	1018.3	1024.4	1017.5
172.5°	1027.4	1022.1	1023.6	1029.0	1022.1
175°	1030.5	1025.9	1026.7	1032.8	1025.9
177.5°	1032.8	1028.2	1029.0	1034.3	1028.2
180°	1030.5	1030.5	1030.5	1030.5	1030.5

(END OF REPORT)