

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: P1027318

Luminaire Tested: S125DIP-B1090D1090UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027318
REPORT IS A COMBINATION OF REPORTS P1001248 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

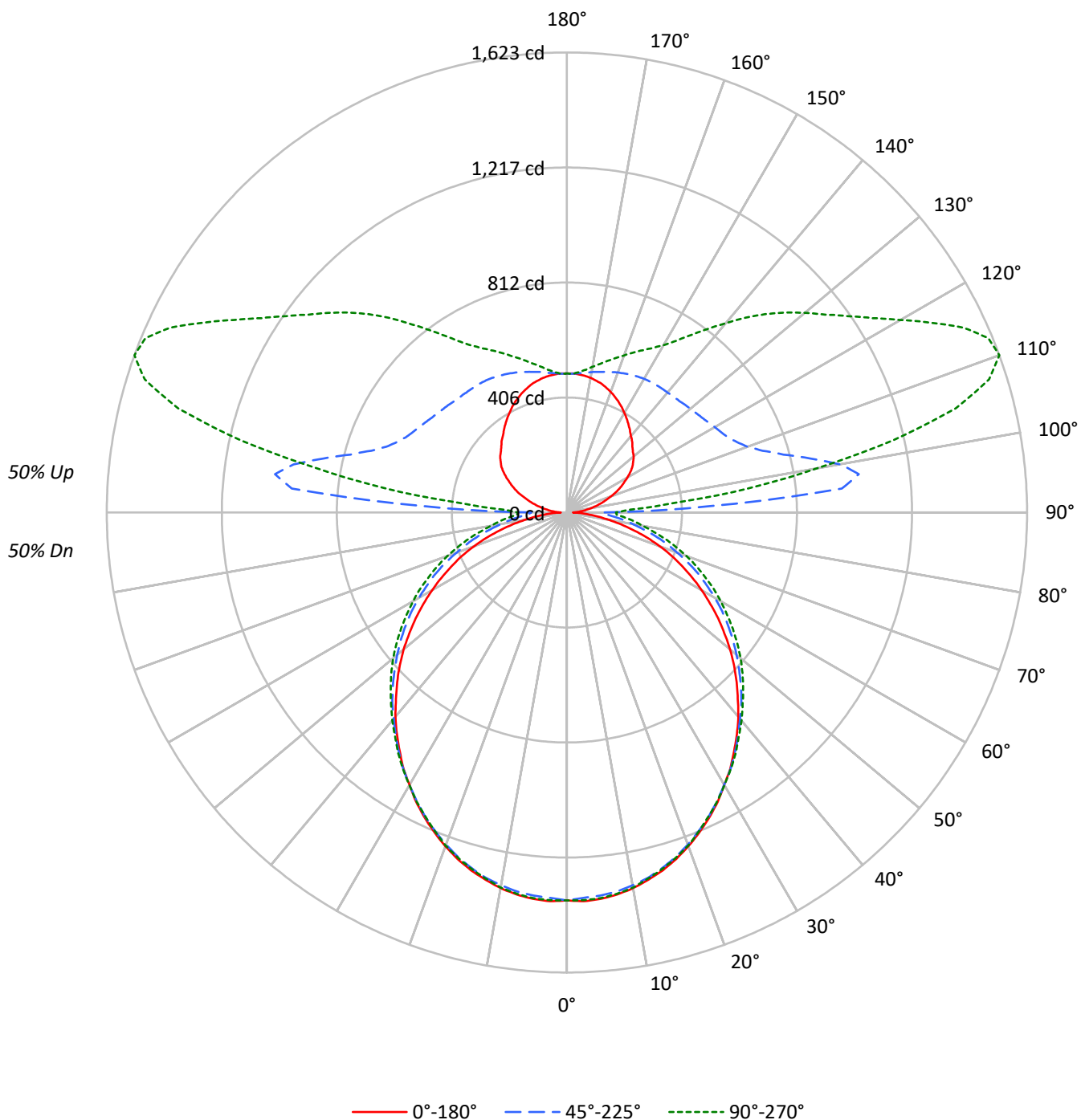
Lumens per Lamp: N/A
Luminaire Lumens: 7931.5 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	57	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	36	32	29	30	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	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	1.6
10°-20°	367.7	4.6
20°-30°	546.7	6.9
30°-40°	647.5	8.2
40°-50°	669.4	8.4
50°-60°	616.7	7.8
60°-70°	498.5	6.3
70°-80°	333.6	4.2
80°-90°	174.4	2.2
90°-100°	466.3	5.9
100°-110°	838.4	10.6
110°-120°	764.1	9.6
120°-130°	606.7	7.6
130°-140°	477.5	6.0
140°-150°	353.8	4.5
150°-160°	247.5	3.1
160°-170°	145.9	1.8
170°-180°	47.4	0.6
0°-30°	1043.9	13.2
0°-40°	1691.5	21.3
0°-60°	2977.5	37.5
0°-90°	3984.0	50.2
90°-120°	2068.8	26.1
90°-150°	3506.8	44.2
90°-180°	3948.0	49.8
0°-180°	7931.5	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	73	126	162	173	17
95°	50	149	974	525	369	48
105°	124	190	790	1511	1420	130
115°	208	258	628	1316	1543	205
125°	282	328	582	1039	1208	250
135°	327	391	558	855	990	254
145°	379	432	550	691	765	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

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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°	22.5	73.3	125.8	161.6	173.0
92.5°	33.6	138.8	499.1	239.4	216.7
95°	50.0	148.6	973.7	524.8	369.2
97.5°	66.5	152.6	1038.5	838.3	639.2
100°	84.0	162.5	978.4	1128.2	893.0
102.5°	103.3	175.8	879.1	1372.4	1178.9
105°	123.8	189.6	790.4	1511.4	1419.6
107.5°	143.1	206.0	723.7	1547.1	1561.1
110°	164.6	223.2	677.9	1501.4	1623.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.3	240.4	648.7	1413.2	1608.3
115°	207.7	258.0	627.5	1316.4	1543.3
117.5°	226.1	276.3	613.3	1226.7	1450.0
120°	245.9	294.8	602.0	1151.6	1358.3
122.5°	265.3	311.7	591.7	1089.0	1276.5
125°	282.1	328.2	582.4	1038.7	1208.5
127.5°	294.6	345.7	575.0	993.4	1146.8
130°	307.4	363.4	569.0	949.1	1095.6
132.5°	316.0	379.2	563.6	901.6	1044.5
135°	326.9	391.2	558.2	855.0	989.6
137.5°	340.7	403.6	555.2	807.6	931.6
140°	351.2	414.0	552.2	763.6	871.8
142.5°	365.0	422.6	550.5	725.2	816.0
145°	378.9	432.4	549.5	691.2	765.2
147.5°	392.4	441.3	547.5	662.4	718.0
150°	405.2	449.2	544.6	639.5	681.3
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)