

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: P1027316

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027316
REPORT IS A COMBINATION OF REPORTS P1001246 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-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

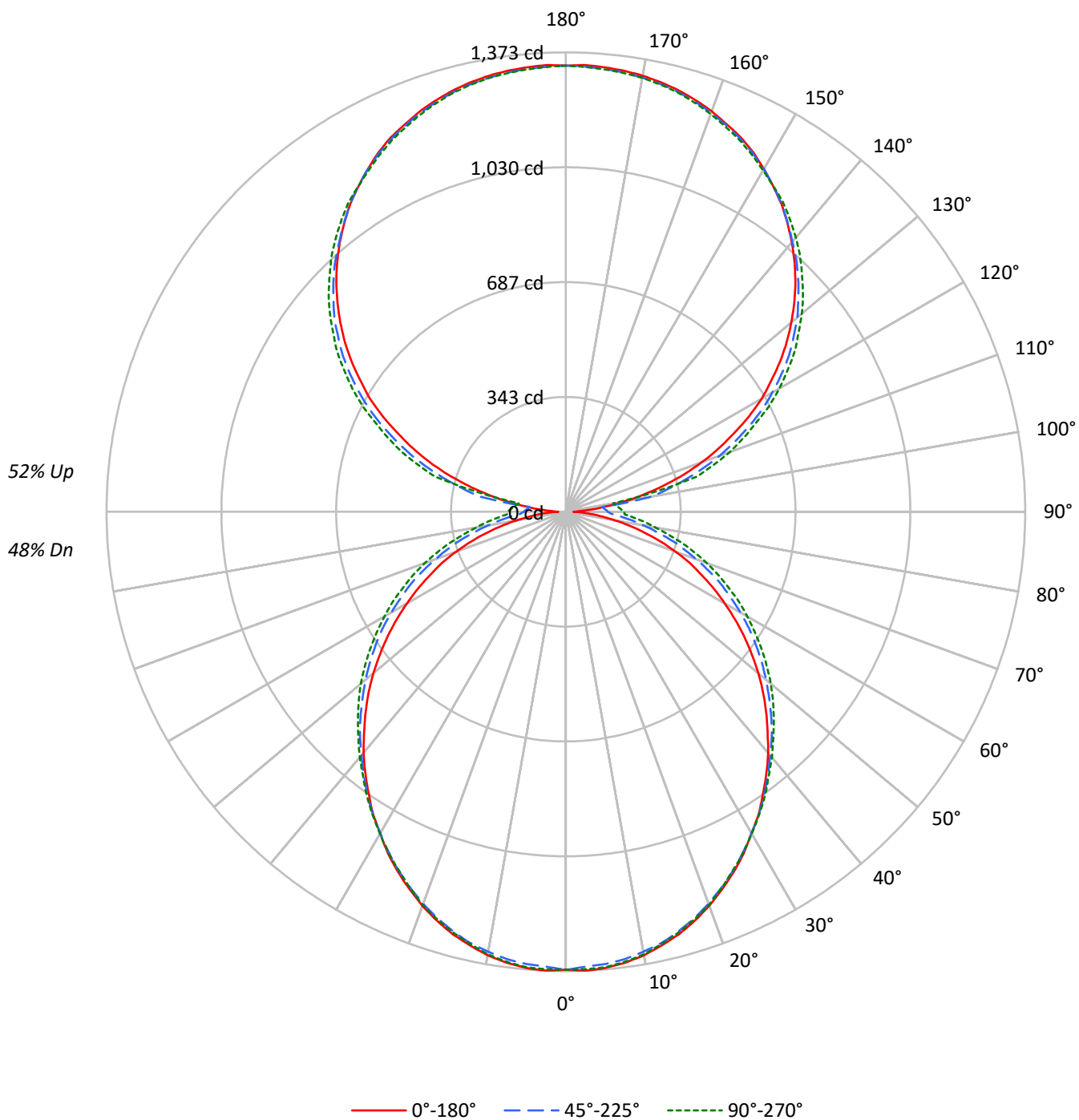
Lumens per Lamp: N/A
Luminaire Lumens: 8338.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	4.4
20°-30°	546.7	6.6
30°-40°	647.5	7.8
40°-50°	669.4	8.0
50°-60°	616.7	7.4
60°-70°	498.5	6.0
70°-80°	333.6	4.0
80°-90°	174.4	2.1
90°-100°	142.4	1.7
100°-110°	372.5	4.5
110°-120°	589.9	7.1
120°-130°	722.7	8.7
130°-140°	760.0	9.1
140°-150°	704.5	8.4
150°-160°	568.0	6.8
160°-170°	367.3	4.4
170°-180°	126.7	1.5
0°-30°	1043.9	12.5
0°-40°	1691.5	20.3
0°-60°	2977.5	35.7
0°-90°	3984.0	47.8
90°-120°	1104.8	13.2
90°-150°	3292.1	39.5
90°-180°	4354.0	52.2
0°-180°	8338.0	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	73	126	162	174	18
95°	74	106	114	148	158	83
105°	303	328	368	395	404	321
115°	554	568	604	624	626	549
125°	781	787	814	831	835	698
135°	970	975	982	998	999	748
145°	1123	1124	1124	1132	1131	702
155°	1236	1230	1232	1235	1227	569
165°	1304	1298	1299	1305	1297	368
175°	1333	1328	1328	1336	1328	127
180°	1333	1333	1333	1333	1333	

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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	161.7	174.0
92.5°	37.6	67.6	120.5	155.0	165.3
95°	73.7	105.7	113.8	148.3	157.7
97.5°	121.9	160.0	110.4	140.6	151.0
100°	179.9	210.9	257.9	138.8	142.9
102.5°	238.8	268.2	311.8	340.6	265.6
105°	302.7	328.1	368.4	395.2	403.6
107.5°	368.5	387.3	428.2	456.1	460.1
110°	432.5	448.6	488.1	510.7	521.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.7	508.8	546.0	566.2	573.6
115°	553.7	568.0	603.9	624.1	626.2
117.5°	616.6	623.3	660.8	677.7	685.1
120°	675.9	678.9	712.8	733.6	736.7
122.5°	727.0	733.2	763.7	783.2	785.4
125°	781.3	786.9	813.8	831.2	834.9
127.5°	832.3	836.0	857.8	875.9	876.1
130°	879.8	883.4	903.2	919.0	920.8
132.5°	925.9	931.9	942.3	961.1	961.5
135°	970.4	974.9	982.4	997.9	998.6
137.5°	1011.9	1016.4	1019.9	1036.0	1036.4
140°	1051.0	1053.0	1053.4	1070.1	1069.6
142.5°	1087.6	1087.3	1089.3	1101.4	1100.8
145°	1123.2	1123.9	1123.9	1131.6	1131.0
147.5°	1153.5	1153.5	1154.5	1158.2	1154.0
150°	1183.2	1181.2	1183.2	1185.2	1178.6
152.5°	1211.9	1206.9	1208.9	1210.9	1203.9
155°	1235.6	1229.6	1231.6	1234.6	1226.7
157.5°	1254.4	1251.4	1251.4	1254.4	1246.4
160°	1274.1	1268.2	1269.2	1273.1	1265.2
162.5°	1289.9	1284.0	1285.0	1290.9	1282.0
165°	1303.8	1297.8	1298.8	1304.8	1296.9
167.5°	1314.7	1308.7	1309.7	1316.6	1307.7
170°	1323.5	1316.6	1317.6	1325.5	1316.6
172.5°	1329.5	1322.6	1324.5	1331.5	1322.6
175°	1333.4	1327.5	1328.5	1336.4	1327.5
177.5°	1336.4	1330.5	1331.5	1338.4	1330.5
180°	1333.4	1333.4	1333.4	1333.4	1333.4

(END OF REPORT)