

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: P1027471

Luminaire Tested: S125DIP-B1090D610UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027471
REPORT IS A COMBINATION OF REPORTS P1001446 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

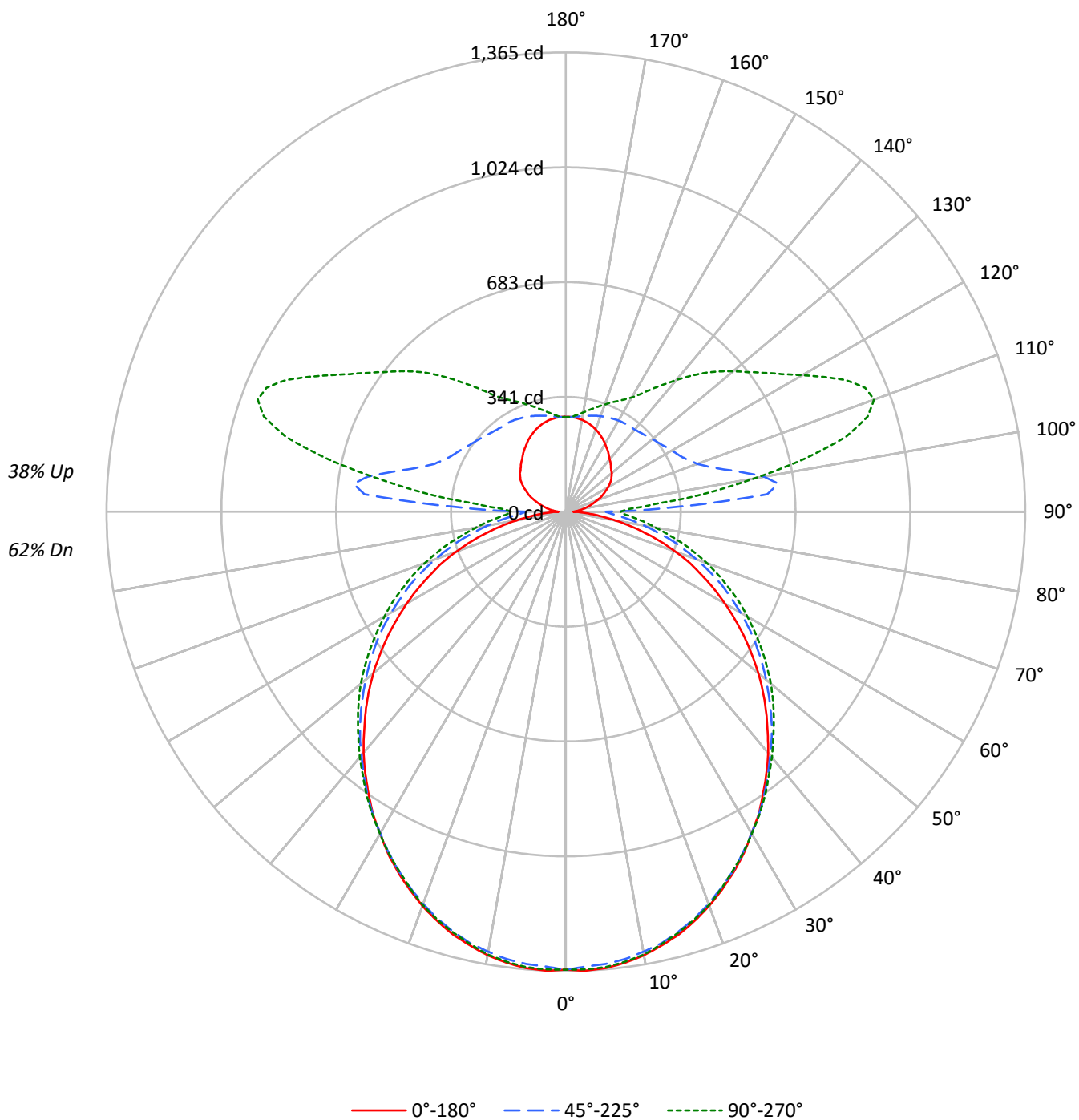
Lumens per Lamp: N/A
Luminaire Lumens: 6338.3 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	85	82	78	75	72	68	66	64	58	57	55
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	58	77	68	61	55	59	54	49	52	48	44	45	41	39
4	75	64	55	49	70	60	52	46	53	47	42	46	41	37	40	36	33
5	69	57	48	42	64	53	46	40	47	41	36	41	36	32	36	32	29
6	64	51	42	36	59	48	40	35	42	36	31	37	32	28	32	28	25
7	59	46	38	32	55	43	36	30	38	32	28	34	29	25	30	25	22
8	55	42	34	28	51	39	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	27	23	44	33	26	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.0
10°-20°	365.6	5.8
20°-30°	543.6	8.6
30°-40°	643.8	10.2
40°-50°	665.6	10.5
50°-60°	613.2	9.7
60°-70°	495.7	7.8
70°-80°	331.7	5.2
80°-90°	172.6	2.7
90°-100°	308.8	4.9
100°-110°	512.0	8.1
110°-120°	459.4	7.2
120°-130°	360.2	5.7
130°-140°	279.5	4.4
140°-150°	204.4	3.2
150°-160°	142.3	2.2
160°-170°	83.9	1.3
170°-180°	27.3	0.4
0°-30°	1038.0	16.4
0°-40°	1681.9	26.5
0°-60°	2960.7	46.7
0°-90°	3960.6	62.5
90°-120°	1280.2	20.2
90°-150°	2124.3	33.5
90°-180°	2378.0	37.5
0°-180°	6338.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	69	118	152	162	16
95°	36	107	601	355	270	33
105°	76	123	485	911	862	80
115°	123	156	383	789	923	121
125°	164	190	348	619	720	146
135°	189	225	326	503	584	147
145°	218	249	316	400	445	137
155°	248	266	308	348	363	114
165°	270	278	296	313	318	76
175°	281	281	284	287	286	27
180°	282	282	282	282	282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	21.9	69.1	118.5	152.0	162.5
92.5°	27.2	104.0	330.8	193.9	184.8
95°	36.1	107.4	600.8	355.2	269.6
97.5°	45.0	108.0	635.9	532.6	422.0
100°	54.5	111.4	598.5	696.4	564.6
102.5°	65.0	117.4	539.2	834.0	726.1
105°	76.2	123.2	485.4	911.2	862.3
107.5°	86.8	130.8	444.7	929.4	940.8
110°	98.5	139.0	416.1	900.4	974.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	111.6	147.2	397.2	846.7	962.9
115°	122.8	155.7	382.7	788.9	922.8
117.5°	132.8	164.5	372.3	734.5	866.8
120°	144.2	174.1	363.6	689.0	811.4
122.5°	154.7	182.0	355.3	650.4	761.5
125°	164.4	190.4	347.8	619.0	719.5
127.5°	171.1	199.9	341.3	590.3	681.9
130°	178.4	210.1	336.1	562.4	649.6
132.5°	182.8	219.2	330.8	533.0	617.3
135°	189.1	225.4	325.5	503.3	583.6
137.5°	197.0	232.6	322.1	473.9	547.4
140°	202.5	238.6	318.6	446.3	510.8
142.5°	210.4	242.9	316.5	422.0	476.4
145°	218.4	248.6	315.9	400.2	445.0
147.5°	225.6	253.7	314.8	382.0	415.0
150°	233.0	258.2	313.1	367.6	392.2
152.5°	240.9	262.8	310.8	357.7	376.2
155°	247.7	266.5	308.0	348.0	363.1
157.5°	254.0	270.2	305.1	339.0	351.2
160°	260.2	273.0	302.3	329.8	339.2
162.5°	265.4	275.9	298.9	321.6	328.4
165°	270.5	277.9	295.5	313.4	318.2
167.5°	273.9	279.0	292.1	305.7	308.5
170°	277.3	280.5	289.2	298.3	300.0
172.5°	279.6	281.0	285.8	292.4	292.1
175°	281.3	281.3	283.5	287.0	285.8
177.5°	282.4	281.3	281.8	283.5	281.8
180°	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)