

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: P1027452

Luminaire Tested: S125DIP-B1090D610UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027452
REPORT IS A COMBINATION OF REPORTS P1001427 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

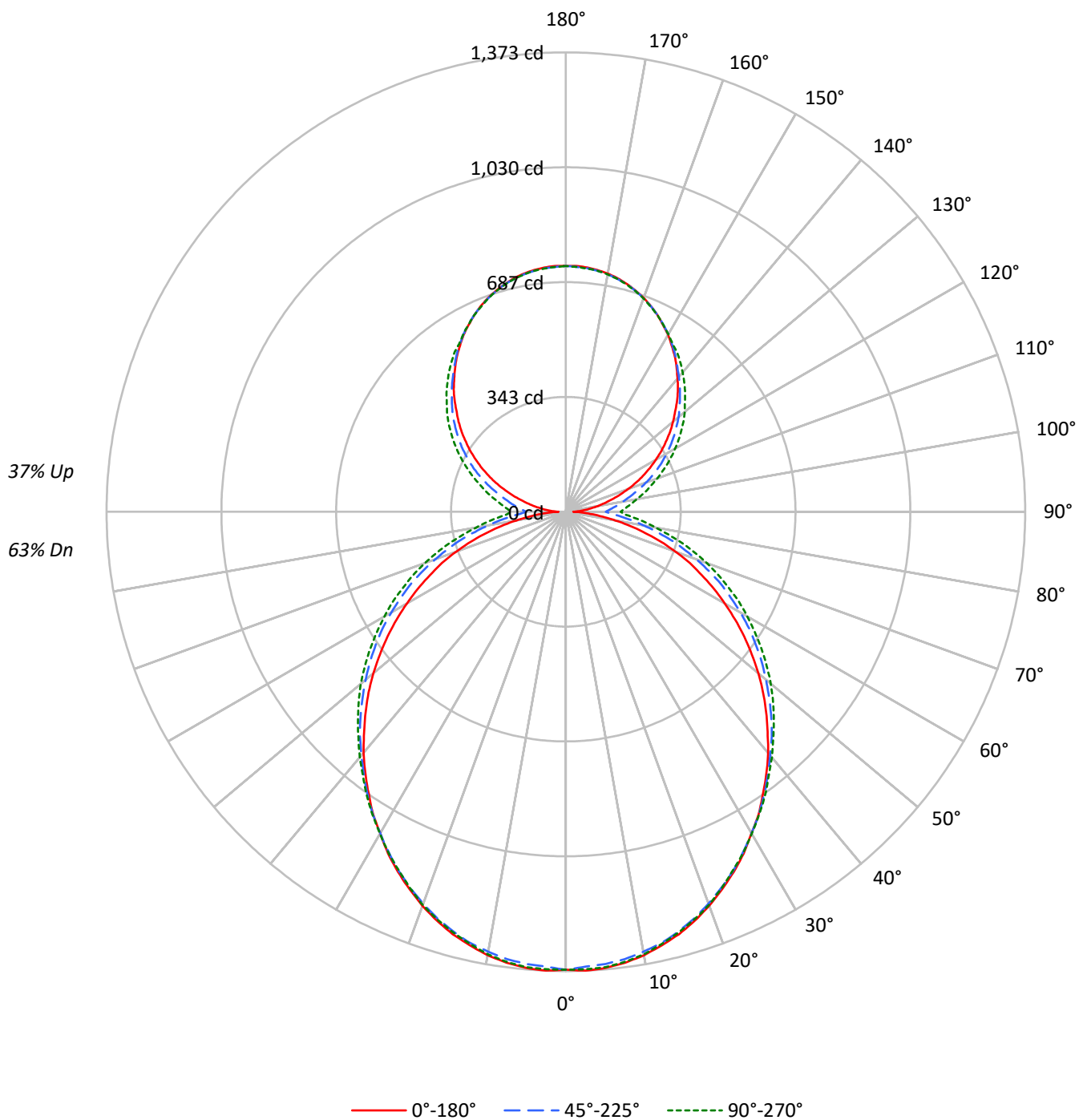
Lumens per Lamp: N/A
Luminaire Lumens: 6291.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	91	91	91	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	73	68	66	64	59	57	56
2	91	82	76	70	85	77	72	67	68	63	59	59	56	53	51	49	46
3	82	72	64	58	77	68	61	55	60	54	50	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	42	38	40	37	33
5	69	57	48	42	64	54	46	40	47	41	36	42	37	33	36	32	29
6	64	51	42	36	59	48	40	35	43	36	32	38	32	28	33	29	25
7	59	46	38	32	55	43	36	30	39	32	28	34	29	25	30	26	23
8	55	42	34	28	51	40	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	28	23	45	33	26	22	30	24	20	27	22	18	24	19	17

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	2.1
10°-20°	367.7	5.8
20°-30°	546.7	8.7
30°-40°	647.5	10.3
40°-50°	669.4	10.6
50°-60°	616.7	9.8
60°-70°	498.5	7.9
70°-80°	333.6	5.3
80°-90°	173.5	2.8
90°-100°	146.0	2.3
100°-110°	216.7	3.4
110°-120°	294.0	4.7
120°-130°	351.1	5.6
130°-140°	374.9	6.0
140°-150°	358.2	5.7
150°-160°	298.9	4.8
160°-170°	198.7	3.2
170°-180°	69.5	1.1
0°-30°	1043.9	16.6
0°-40°	1691.5	26.9
0°-60°	2977.5	47.3
0°-90°	3983.1	63.3
90°-120°	656.6	10.4
90°-150°	1740.7	27.7
90°-180°	2308.0	36.7
0°-180°	6291.0	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	70	119	153	164	17
95°	55	91	142	176	186	53
105°	142	167	210	241	252	152
115°	254	266	302	326	333	252
125°	365	367	394	415	421	327
135°	470	472	482	500	504	362
145°	568	569	570	577	581	355
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

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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°	22.1	69.5	119.1	152.9	164.0
92.5°	35.9	77.7	129.8	163.4	173.9
95°	54.6	90.6	142.0	175.5	186.1
97.5°	73.3	106.0	158.3	190.0	199.9
100°	94.8	122.9	173.4	206.7	215.8
102.5°	118.0	146.4	190.8	223.3	233.1
105°	142.4	166.7	210.4	240.6	251.8
107.5°	169.0	190.7	232.4	261.1	269.1
110°	196.9	215.8	255.1	282.4	291.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	226.6	239.8	278.3	303.1	311.3
115°	254.4	266.0	302.1	325.7	333.1
117.5°	282.8	290.0	324.8	348.2	355.3
120°	310.2	317.1	348.5	371.3	377.1
122.5°	338.6	340.5	371.7	392.6	399.0
125°	364.9	367.0	394.4	414.7	420.8
127.5°	392.7	393.1	416.5	436.0	442.9
130°	418.4	419.9	439.9	458.1	463.7
132.5°	442.8	448.0	460.8	479.0	482.7
135°	470.2	472.3	482.2	499.7	504.2
137.5°	496.0	498.0	504.5	521.2	523.8
140°	519.1	522.0	525.1	541.0	543.5
142.5°	543.7	544.7	547.0	559.7	562.1
145°	567.7	568.7	570.4	577.1	580.8
147.5°	588.7	590.4	591.6	596.0	594.1
150°	611.0	610.4	612.7	612.7	612.9
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)