

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: P1027453

Luminaire Tested: S125DIP-B1090D610UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027453
REPORT IS A COMBINATION OF REPORTS P1001428 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-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

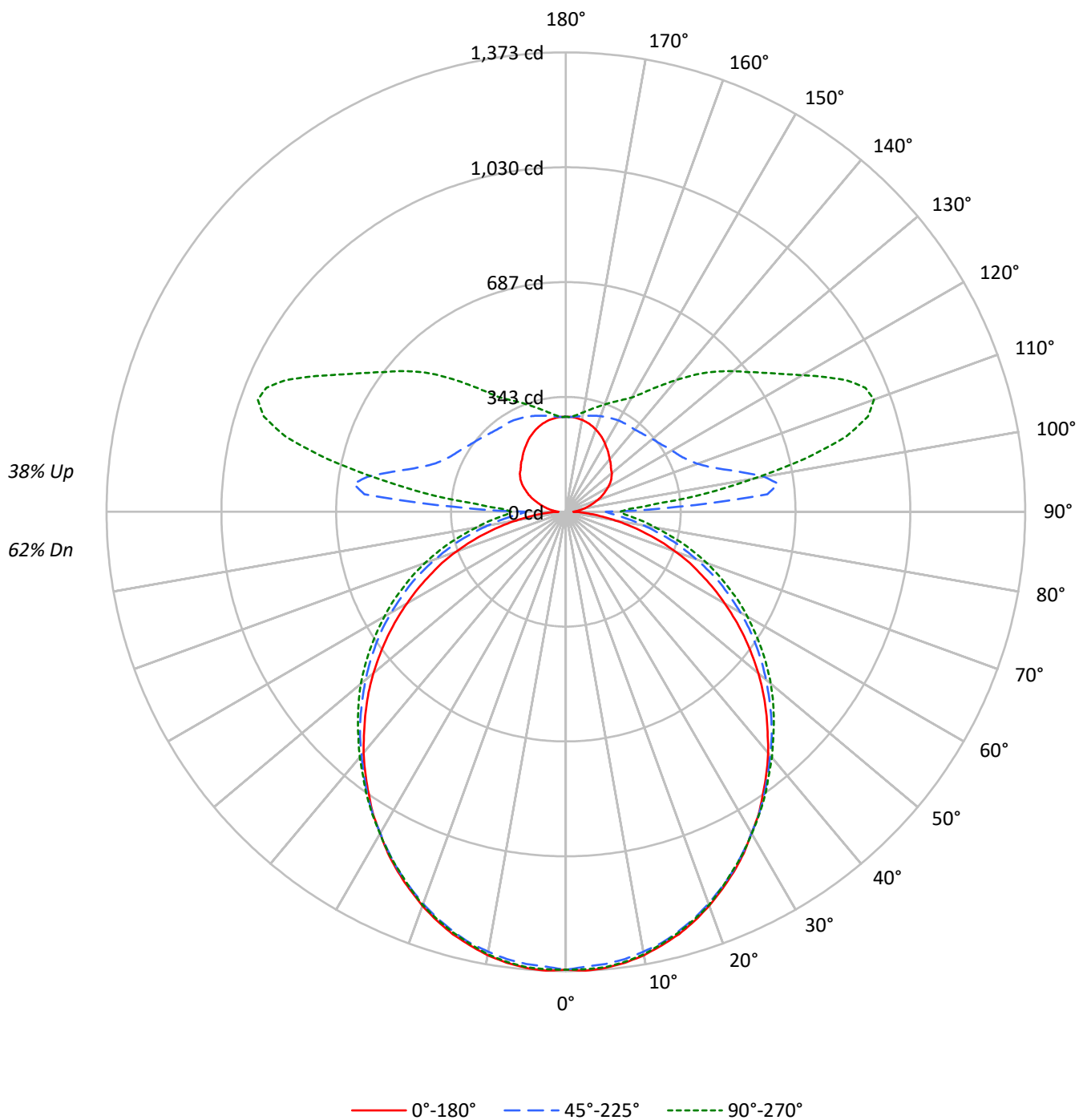
Lumens per Lamp: N/A
Luminaire Lumens: 6375.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	21	18	23	19	16

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	2.0
10°-20°	367.7	5.8
20°-30°	546.7	8.6
30°-40°	647.5	10.2
40°-50°	669.4	10.5
50°-60°	616.7	9.7
60°-70°	498.5	7.8
70°-80°	333.6	5.2
80°-90°	173.5	2.7
90°-100°	310.7	4.9
100°-110°	515.1	8.1
110°-120°	462.2	7.3
120°-130°	362.4	5.7
130°-140°	281.2	4.4
140°-150°	205.7	3.2
150°-160°	143.2	2.2
160°-170°	84.4	1.3
170°-180°	27.4	0.4
0°-30°	1043.9	16.4
0°-40°	1691.5	26.5
0°-60°	2977.5	46.7
0°-90°	3983.1	62.5
90°-120°	1288.0	20.2
90°-150°	2137.3	33.5
90°-180°	2392.0	37.5
0°-180°	6375.3	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	163	16
95°	36	108	604	357	271	33
105°	77	124	488	917	868	81
115°	124	157	385	794	928	122
125°	166	192	350	623	724	147
135°	190	227	327	506	587	148
145°	220	250	318	403	448	137
155°	249	268	310	350	365	115
165°	272	280	297	315	320	77
175°	283	283	285	289	288	27
180°	284	284	284	284	284	

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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	69.6	119.1	152.9	163.4
92.5°	27.4	104.6	332.8	195.1	185.9
95°	36.3	108.0	604.5	357.3	271.3
97.5°	45.3	108.6	639.7	535.9	424.6
100°	54.8	112.1	602.2	700.6	568.0
102.5°	65.4	118.1	542.4	839.1	730.6
105°	76.7	123.8	488.3	916.8	867.5
107.5°	87.3	131.6	447.4	935.1	946.6
110°	99.2	139.8	418.7	905.9	980.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.3	148.2	399.6	852.0	968.8
115°	123.6	156.6	385.0	793.8	928.3
117.5°	133.6	165.5	374.6	739.0	872.2
120°	145.1	175.0	365.8	693.2	816.3
122.5°	155.8	183.0	357.5	654.2	766.1
125°	165.5	191.6	349.9	622.8	723.9
127.5°	172.1	201.1	343.4	593.8	686.0
130°	179.5	211.3	338.2	566.0	653.6
132.5°	183.9	220.6	332.8	536.3	621.2
135°	190.2	226.8	327.4	506.4	587.2
137.5°	198.2	234.0	324.0	476.7	550.7
140°	203.7	240.0	320.6	449.0	513.9
142.5°	211.7	244.4	318.4	424.6	479.3
145°	219.7	250.1	317.9	402.6	447.7
147.5°	227.0	255.3	316.7	384.3	417.6
150°	234.4	259.8	315.0	369.9	394.6
152.5°	242.4	264.4	312.7	359.9	378.5
155°	249.3	268.1	309.9	350.2	365.3
157.5°	255.6	271.8	307.0	341.0	353.3
160°	261.8	274.7	304.1	331.9	341.3
162.5°	267.0	277.6	300.7	323.6	330.4
165°	272.1	279.6	297.3	315.3	320.2
167.5°	275.6	280.8	293.9	307.5	310.4
170°	279.0	282.2	291.0	300.2	301.9
172.5°	281.3	282.7	287.6	294.2	293.9
175°	283.0	283.0	285.3	288.7	287.6
177.5°	284.1	283.0	283.6	285.3	283.6
180°	283.6	283.6	283.6	283.6	283.6

(END OF REPORT)