

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: P1011242

Luminaire Tested: S123DIP-B1165D1025UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011242
REPORT IS A COMBINATION OF REPORTS P989323 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

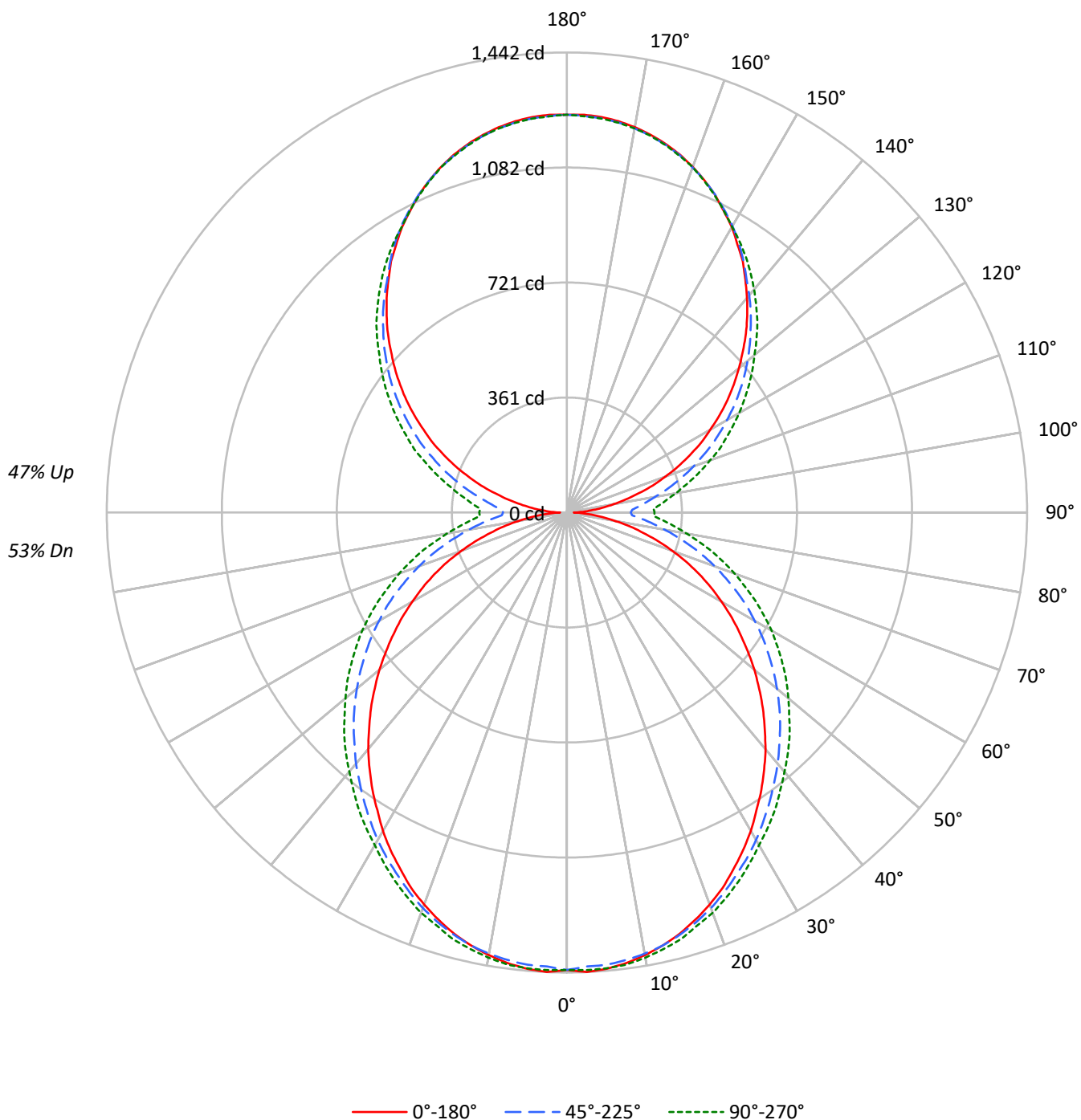
Lumens per Lamp: N/A
Luminaire Lumens: 8277.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	97	93	88	84	90	86	82	79	73	70	68	61	59	57	51	49	48
2	88	80	74	68	81	74	69	64	63	59	55	53	50	47	44	41	39
3	80	70	62	56	74	65	58	53	56	50	46	47	43	39	39	36	33
4	73	62	54	47	67	57	50	44	49	43	39	41	37	33	34	31	28
5	67	55	46	40	62	51	44	38	44	38	33	37	32	29	31	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	29	25	28	24	21
7	57	44	36	30	53	41	34	29	36	30	25	30	26	22	25	22	19
8	53	40	32	27	49	38	30	25	33	27	22	28	23	20	23	20	17
9	49	37	29	24	46	34	27	23	30	24	20	25	21	18	21	18	15
10	46	34	26	21	43	32	25	20	27	22	18	24	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15434	15434	15434
5°	15477	14982	14969
10°	15332	14576	14464
15°	15129	14128	13929
20°	14841	13628	13354
25°	14487	13066	12758
30°	14123	12556	12160
35°	13716	12022	11673
40°	13328	11534	11158
45°	12898	11061	10734
50°	12471	10593	10273
55°	12000	10112	9850
60°	11539	9621	9416
65°	11064	9096	8908
70°	10348	8509	8384
75°	9449	7839	7845
80°	8393	7161	7228
85°	7348	6611	6785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.6
10°-20°	387.8	4.7
20°-30°	579.9	7.0
30°-40°	692.3	8.4
40°-50°	724.4	8.8
50°-60°	679.8	8.2
60°-70°	567.8	6.9
70°-80°	406.0	4.9
80°-90°	244.2	3.0
90°-100°	232.1	2.8
100°-110°	354.5	4.3
110°-120°	488.1	5.9
120°-130°	586.7	7.1
130°-140°	630.7	7.6
140°-150°	605.3	7.3
150°-160°	506.3	6.1
160°-170°	337.0	4.1
170°-180°	118.0	1.4
0°-30°	1103.7	13.3
0°-40°	1796.0	21.7
0°-60°	3200.1	38.7
0°-90°	4418.2	53.4
90°-120°	1074.8	13.0
90°-150°	2897.5	35.0
90°-180°	3859.0	46.6
0°-180°	8277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1432	1423	1436	1434	136
15°	1367	1371	1370	1386	1384	385
25°	1234	1250	1254	1275	1275	569
35°	1062	1087	1107	1131	1137	664
45°	868	906	945	975	987	670
55°	662	714	770	812	825	593
65°	458	519	587	634	650	452
75°	248	322	400	451	470	265
85°	76	155	237	290	306	79
90°	21	108	200	257	275	19
95°	75	143	227	280	295	77
105°	233	272	348	392	408	249
115°	424	446	500	539	550	420
125°	614	617	660	689	696	548
135°	794	798	814	838	844	612
145°	961	961	964	976	978	600
155°	1098	1098	1099	1103	1096	506
165°	1196	1193	1193	1199	1192	337
175°	1244	1240	1240	1246	1239	118
180°	1247	1247	1247	1247	1247	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1441.7	1437.0	1424.5	1437.0	1435.5
5°	1435.5	1432.3	1423.0	1435.5	1433.9
7.5°	1424.5	1424.5	1415.1	1430.8	1429.2
10°	1408.9	1412.0	1404.2	1419.8	1416.7
12.5°	1390.2	1394.8	1390.2	1404.2	1401.1
15°	1366.7	1371.4	1369.9	1385.5	1383.9
17.5°	1338.6	1348.0	1346.4	1360.5	1357.4
20°	1307.4	1316.7	1319.9	1333.9	1335.5
22.5°	1274.6	1283.9	1288.6	1307.4	1305.8
25°	1234.0	1249.6	1254.3	1274.6	1274.6
27.5°	1194.9	1212.1	1221.5	1238.6	1240.2
30°	1152.7	1173.0	1185.5	1204.3	1204.3
32.5°	1105.9	1129.3	1146.5	1166.8	1171.5
35°	1062.1	1087.1	1107.4	1130.9	1137.1
37.5°	1015.3	1043.4	1066.8	1093.4	1098.1
40°	968.4	996.5	1027.8	1054.3	1060.6
42.5°	916.9	952.8	985.6	1015.3	1024.7
45°	868.5	905.9	945.0	974.7	987.2
47.5°	816.9	859.1	902.8	935.6	945.0
50°	766.9	810.7	859.1	895.0	905.9
52.5°	713.8	760.7	815.4	852.8	866.9
55°	662.3	713.8	770.1	812.2	824.7
57.5°	612.3	665.4	726.3	768.5	782.5
60°	559.2	615.4	679.5	723.2	740.4
62.5°	509.2	567.0	635.7	679.5	695.1
65°	457.7	518.6	587.3	634.2	649.8
67.5°	406.1	470.2	538.9	590.4	602.9
70°	351.4	418.6	493.6	543.6	559.2
72.5°	301.5	368.6	446.7	498.3	513.9
75°	248.4	321.8	399.9	451.4	470.2
77.5°	203.1	276.5	354.6	409.2	423.3
80°	154.6	231.2	312.4	365.5	381.1
82.5°	112.5	190.6	273.3	326.5	342.1
85°	76.5	154.6	237.4	290.5	306.1
87.5°	46.9	125.0	204.6	257.7	273.3
90°	21.3	107.6	200.0	257.0	274.6
92.5°	48.1	121.2	205.1	259.7	271.7
95°	75.0	142.8	227.1	279.5	295.1
97.5°	110.6	171.8	251.1	302.8	317.4
100°	147.3	203.1	279.9	328.1	345.7
102.5°	189.8	236.4	313.6	360.3	375.0
105°	232.9	272.4	348.3	392.1	408.0
107.5°	282.3	316.0	384.1	429.1	442.2
110°	327.8	357.8	422.3	466.8	477.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.8	399.5	458.9	502.8	516.9
115°	424.1	445.9	500.1	538.6	550.1
117.5°	474.1	487.6	538.7	576.2	585.8
120°	518.5	532.3	578.9	613.8	622.9
122.5°	566.5	573.7	620.1	651.6	659.5
125°	614.0	617.0	660.3	689.2	696.2
127.5°	659.1	663.4	700.5	725.8	732.8
130°	704.1	710.4	738.7	764.4	767.0
132.5°	747.6	755.4	777.0	800.2	806.2
135°	793.7	798.0	814.2	838.4	844.3
137.5°	835.8	839.2	853.0	873.1	878.0
140°	878.4	883.3	888.8	911.4	912.3
142.5°	918.5	921.8	923.8	943.1	946.0
145°	960.6	961.0	963.9	975.5	977.7
147.5°	995.3	999.2	1002.2	1006.9	1007.2
150°	1033.5	1035.5	1037.4	1037.4	1034.6
152.5°	1064.8	1067.8	1068.8	1070.7	1065.8
155°	1098.2	1098.2	1099.1	1103.1	1096.2
157.5°	1126.6	1125.6	1126.6	1130.5	1124.6
160°	1153.0	1151.1	1151.1	1156.0	1152.0
162.5°	1176.5	1173.6	1174.6	1179.5	1172.6
165°	1196.1	1193.2	1193.2	1199.1	1192.2
167.5°	1212.8	1208.9	1209.8	1215.7	1209.8
170°	1226.5	1222.6	1222.6	1229.4	1222.6
172.5°	1237.3	1233.3	1233.3	1239.2	1232.4
175°	1244.1	1240.2	1240.2	1246.1	1239.2
177.5°	1248.0	1244.1	1244.1	1250.0	1243.1
180°	1247.1	1247.1	1247.1	1247.1	1247.1

(END OF REPORT)