

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: P1025800

Luminaire Tested: S124DIP-B795D365UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025800
REPORT IS A COMBINATION OF REPORTS P996445 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D365UB27-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

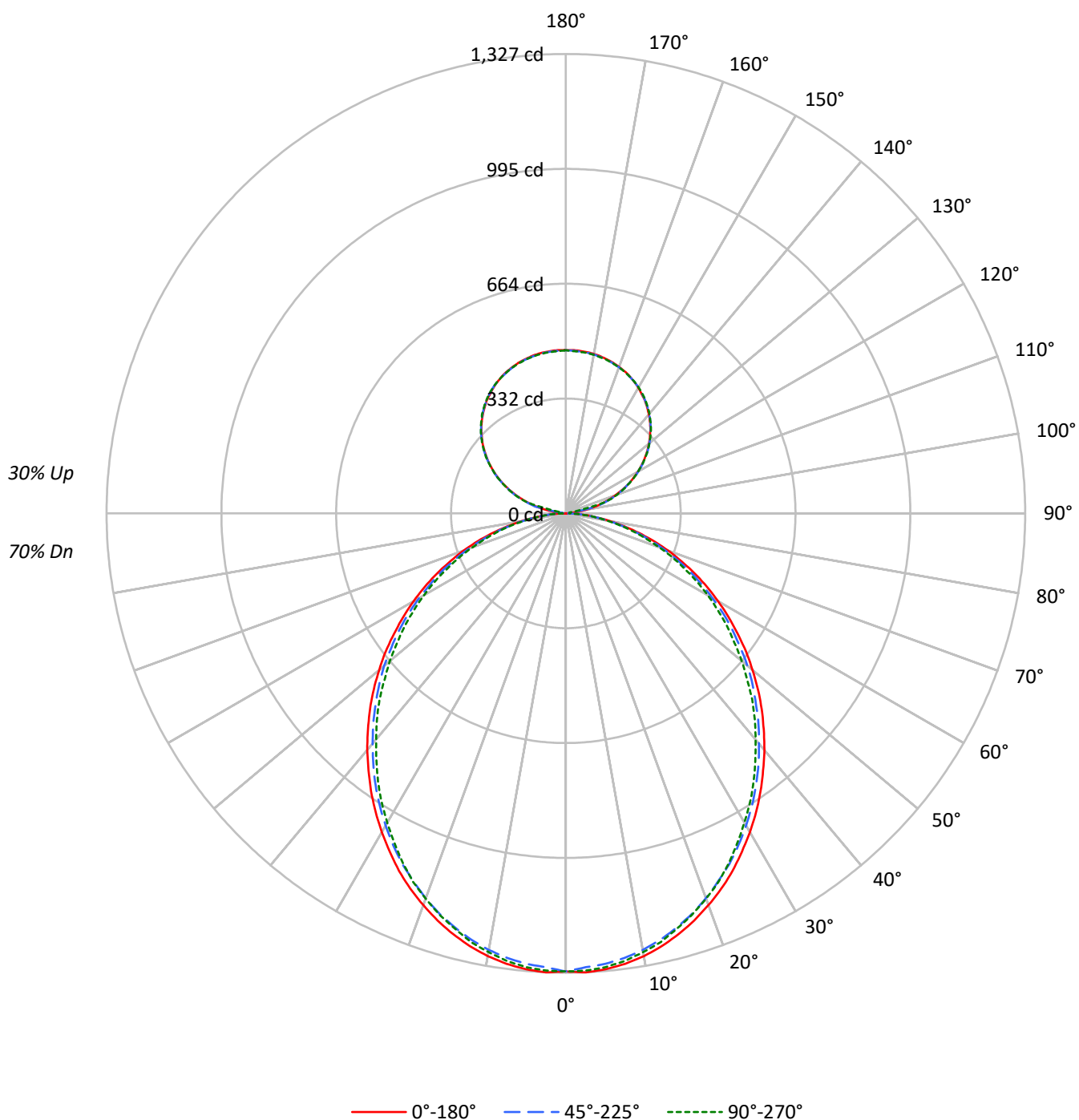
Lumens per Lamp: N/A
Luminaire Lumens: 4855.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	96	93	89	86	83	80	78	74	72	70	66	64	63
2	93	85	79	74	88	81	75	70	73	68	64	65	62	58	58	55	53
3	85	75	67	61	80	71	64	59	64	59	54	57	53	50	51	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	46	42	46	42	39
5	72	59	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10789	10789	10789
5°	10798	10479	10492
10°	10706	10188	10117
15°	10553	9842	9694
20°	10357	9468	9255
25°	10136	9072	8784
30°	9870	8645	8267
35°	9595	8208	7766
40°	9307	7737	7234
45°	9005	7265	6737
50°	8673	6807	6186
55°	8310	6272	5639
60°	7938	5686	5069
65°	7514	5082	4427
70°	7025	4354	3738
75°	6294	3509	2994
80°	5363	2537	2106
85°	4162	1412	1134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	2.6
10°-20°	351.3	7.2
20°-30°	517.1	10.7
30°-40°	601.1	12.4
40°-50°	601.0	12.4
50°-60°	525.7	10.8
60°-70°	390.3	8.0
70°-80°	221.4	4.6
80°-90°	64.4	1.3
90°-100°	15.7	0.3
100°-110°	103.0	2.1
110°-120°	196.7	4.1
120°-130°	249.7	5.1
130°-140°	267.1	5.5
140°-150°	249.8	5.1
150°-160°	201.4	4.1
160°-170°	129.9	2.7
170°-180°	44.8	0.9
0°-30°	993.1	20.5
0°-40°	1594.2	32.8
0°-60°	2720.9	56.0
0°-90°	3397.0	70.0
90°-120°	315.4	6.5
90°-150°	1081.9	22.3
90°-180°	1458.0	30.0
0°-180°	4855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1322	1318	1306	1318	1316	125
15°	1258	1254	1238	1245	1242	355
25°	1140	1132	1117	1118	1114	524
35°	981	973	958	951	946	613
45°	800	793	776	764	761	617
55°	605	602	587	575	568	542
65°	410	405	394	384	378	406
75°	218	213	208	204	202	232
85°	57	57	55	55	54	62
90°	1	5	8	10	11	5
95°	19	7	8	10	10	24
105°	106	108	110	113	100	111
115°	198	199	199	200	200	195
125°	278	280	279	280	280	249
135°	345	345	346	347	348	266
145°	398	399	399	400	400	249
155°	437	437	436	437	436	201
165°	461	459	459	462	458	130
175°	471	469	469	473	468	45
180°	471	471	471	471	471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.1	1323.1	1323.1	1323.1	1323.1
2.5°	1327.3	1324.2	1312.5	1323.1	1322.0
5°	1322.0	1317.8	1306.1	1317.8	1315.7
7.5°	1312.5	1308.3	1295.5	1305.1	1304.0
10°	1298.7	1294.5	1280.7	1289.2	1287.1
12.5°	1280.7	1276.5	1261.6	1271.2	1268.0
15°	1258.4	1254.2	1238.3	1244.6	1241.5
17.5°	1233.0	1227.7	1212.8	1217.1	1215.0
20°	1204.4	1199.1	1183.2	1186.3	1184.2
22.5°	1173.6	1166.2	1150.3	1156.7	1152.4
25°	1139.7	1132.3	1117.4	1118.5	1114.2
27.5°	1101.5	1094.1	1080.3	1078.2	1072.9
30°	1063.4	1054.9	1041.1	1036.9	1031.6
32.5°	1023.1	1015.7	1000.8	995.5	990.2
35°	980.7	973.2	958.4	951.0	945.7
37.5°	936.1	929.8	913.9	906.5	899.0
40°	892.7	884.2	868.3	857.7	852.4
42.5°	846.0	841.8	823.8	811.0	807.9
45°	800.4	793.0	776.1	764.4	761.2
47.5°	752.7	747.4	731.5	718.8	710.3
50°	704.0	699.7	684.9	670.0	663.7
52.5°	656.3	650.9	635.0	622.3	613.8
55°	605.4	602.2	587.3	574.6	568.3
57.5°	557.7	554.5	539.6	526.9	520.5
60°	507.8	502.5	488.7	479.2	473.9
62.5°	459.1	454.8	440.0	431.5	426.2
65°	410.3	405.0	394.4	383.8	378.5
67.5°	360.5	356.2	345.6	335.0	334.0
70°	314.9	307.5	299.0	290.5	287.3
72.5°	266.1	258.7	252.3	246.0	242.8
75°	218.4	213.1	207.8	203.6	202.5
77.5°	171.7	169.6	164.3	163.3	160.1
80°	130.4	127.2	125.1	123.0	121.9
82.5°	90.1	89.1	89.1	88.0	86.9
85°	57.2	57.2	55.1	55.1	54.1
87.5°	27.6	26.5	25.4	25.4	25.4
90°	1.1	4.9	7.8	9.9	10.6
92.5°	5.3	4.6	7.4	9.5	9.5
95°	19.4	7.4	7.8	9.9	10.2
97.5°	37.0	44.8	7.8	9.5	9.9
100°	57.8	64.1	15.5	9.5	9.9
102.5°	81.1	85.3	89.5	10.2	10.2
105°	106.1	108.2	110.0	113.1	100.4
107.5°	129.0	130.0	132.5	134.3	135.7
110°	152.2	153.3	155.4	156.1	157.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	176.9	177.6	177.3	178.7
115°	198.1	199.1	198.8	199.5	199.5
117.5°	218.9	220.3	221.3	221.0	221.0
120°	240.0	241.4	241.1	241.8	241.1
122.5°	259.7	260.4	261.1	261.5	260.8
125°	278.4	279.8	279.1	280.2	280.5
127.5°	296.4	296.7	298.5	298.1	297.8
130°	313.7	314.0	315.1	315.4	315.4
132.5°	329.5	330.2	331.6	332.0	331.6
135°	345.4	345.0	346.4	347.1	347.8
137.5°	359.5	359.5	361.2	361.9	361.6
140°	373.2	373.9	374.6	375.7	376.0
142.5°	385.6	387.0	387.3	388.0	388.0
145°	398.2	399.3	399.3	399.6	400.4
147.5°	408.1	410.2	409.9	410.2	410.6
150°	419.0	420.4	420.1	420.1	420.4
152.5°	428.2	429.3	428.5	429.3	428.9
155°	436.7	437.0	435.9	437.4	436.3
157.5°	444.1	444.1	442.6	444.4	442.6
160°	450.4	449.3	449.0	451.1	449.0
162.5°	456.0	454.6	454.3	456.4	453.9
165°	460.6	458.9	458.9	461.7	458.5
167.5°	464.5	462.7	462.4	465.6	462.0
170°	467.7	465.6	465.9	468.7	465.2
172.5°	469.8	467.7	468.0	470.8	467.0
175°	471.2	469.1	469.4	472.6	468.4
177.5°	472.2	469.8	470.5	473.3	469.1
180°	471.2	471.2	471.2	471.2	471.2

(END OF REPORT)