

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: P1025818

Luminaire Tested: S124DIP-B795D365UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025818
REPORT IS A COMBINATION OF REPORTS P996478 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D365UB35-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

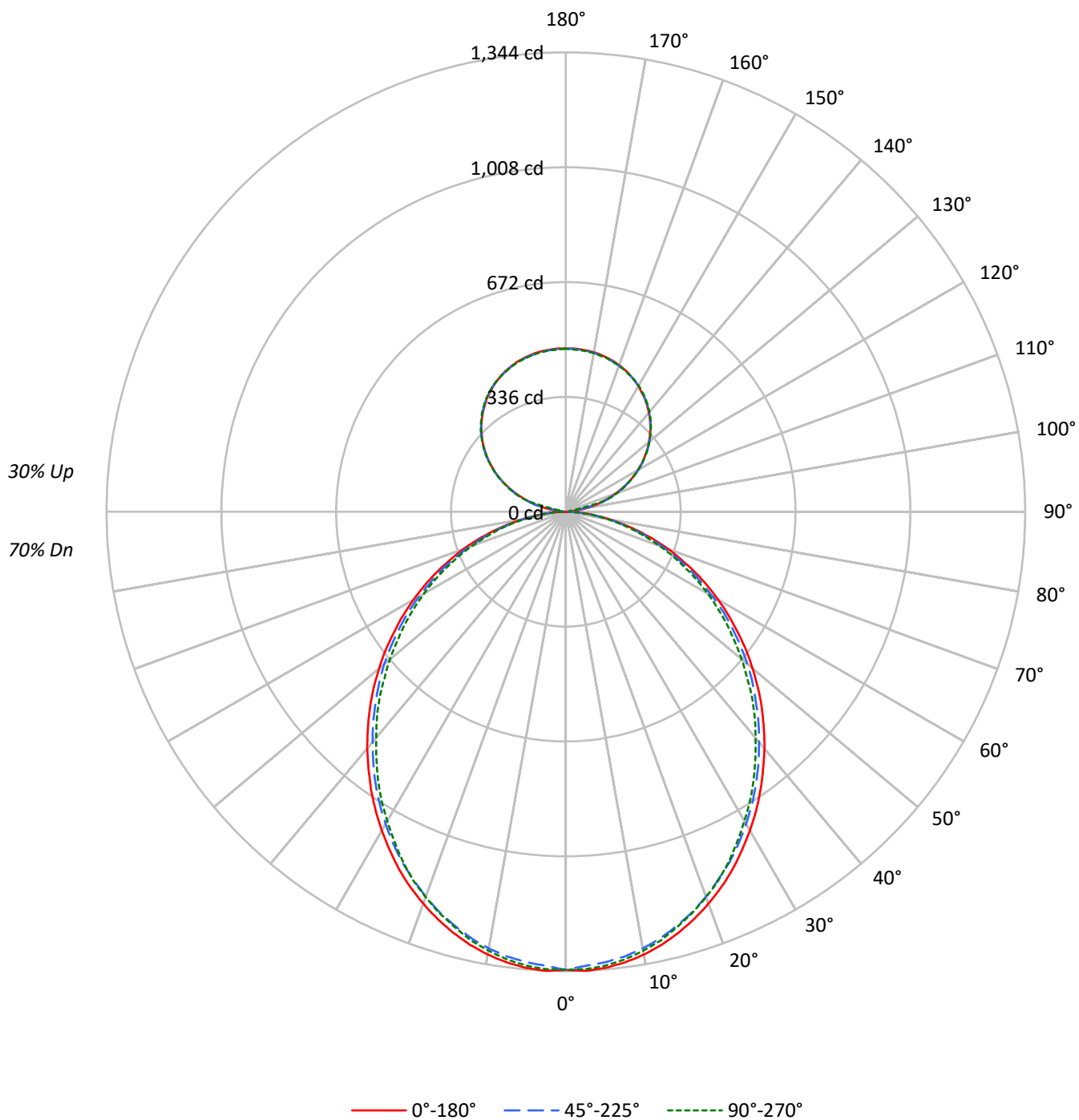
Lumens per Lamp: N/A
Luminaire Lumens: 4918.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10929	10929	10929
5°	10938	10615	10627
10°	10845	10320	10247
15°	10690	9969	9820
20°	10491	9591	9376
25°	10268	9190	8898
30°	9998	8757	8374
35°	9719	8314	7867
40°	9427	7837	7328
45°	9122	7359	6824
50°	8785	6895	6266
55°	8417	6353	5711
60°	8041	5760	5134
65°	7611	5148	4484
70°	7117	4409	3786
75°	6374	3555	3032
80°	5433	2570	2133
85°	4221	1430	1149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	2.6
10°-20°	355.9	7.2
20°-30°	523.8	10.7
30°-40°	608.9	12.4
40°-50°	608.8	12.4
50°-60°	532.5	10.8
60°-70°	395.3	8.0
70°-80°	224.3	4.6
80°-90°	65.2	1.3
90°-100°	15.8	0.3
100°-110°	104.3	2.1
110°-120°	199.2	4.1
120°-130°	252.9	5.1
130°-140°	270.6	5.5
140°-150°	253.0	5.1
150°-160°	204.0	4.1
160°-170°	131.6	2.7
170°-180°	45.4	0.9
0°-30°	1006.0	20.5
0°-40°	1614.9	32.8
0°-60°	2756.1	56.0
0°-90°	3441.0	70.0
90°-120°	319.4	6.5
90°-150°	1096.0	22.3
90°-180°	1477.0	30.0
0°-180°	4918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1339	1335	1323	1335	1333	127
15°	1275	1270	1254	1261	1258	359
25°	1154	1147	1132	1133	1129	531
35°	993	986	971	963	958	621
45°	811	803	786	774	771	625
55°	613	610	595	582	576	549
65°	416	410	400	389	383	411
75°	221	216	210	206	205	235
85°	58	58	56	56	55	62
90°	1	5	8	10	11	5
95°	20	8	8	10	10	24
105°	108	110	111	115	102	112
115°	201	202	201	202	202	197
125°	282	284	283	284	284	252
135°	350	350	351	352	352	270
145°	403	404	404	405	406	252
155°	442	443	442	443	442	204
165°	467	465	465	468	464	132
175°	477	475	476	479	474	45
180°	477	477	477	477	477	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1344.5	1341.3	1329.5	1340.2	1339.2
5°	1339.2	1334.9	1323.1	1334.9	1332.7
7.5°	1329.5	1325.2	1312.3	1322.0	1320.9
10°	1315.5	1311.2	1297.3	1305.9	1303.7
12.5°	1297.3	1293.0	1278.0	1287.6	1284.4
15°	1274.7	1270.4	1254.3	1260.8	1257.6
17.5°	1249.0	1243.6	1228.6	1232.9	1230.7
20°	1220.0	1214.6	1198.5	1201.7	1199.6
22.5°	1188.8	1181.3	1165.2	1171.6	1167.3
25°	1154.5	1146.9	1131.9	1133.0	1128.7
27.5°	1115.8	1108.3	1094.3	1092.2	1086.8
30°	1077.1	1068.5	1054.6	1050.3	1044.9
32.5°	1036.3	1028.8	1013.8	1008.4	1003.0
35°	993.4	985.9	970.8	963.3	957.9
37.5°	948.3	941.8	925.7	918.2	910.7
40°	904.2	895.6	879.5	868.8	863.4
42.5°	857.0	852.7	834.4	821.5	818.3
45°	810.8	803.3	786.1	774.3	771.1
47.5°	762.5	757.1	741.0	728.1	719.5
50°	713.1	708.8	693.7	678.7	672.3
52.5°	664.8	659.4	643.3	630.4	621.8
55°	613.2	610.0	594.9	582.1	575.6
57.5°	564.9	561.7	546.6	533.7	527.3
60°	514.4	509.0	495.1	485.4	480.0
62.5°	465.0	460.7	445.7	437.1	431.7
65°	415.6	410.2	399.5	388.8	383.4
67.5°	365.1	360.8	350.1	339.4	338.3
70°	319.0	311.4	302.8	294.3	291.0
72.5°	269.6	262.0	255.6	249.1	245.9
75°	221.2	215.9	210.5	206.2	205.1
77.5°	174.0	171.8	166.5	165.4	162.2
80°	132.1	128.9	126.7	124.6	123.5
82.5°	91.3	90.2	90.2	89.1	88.1
85°	58.0	58.0	55.8	55.8	54.8
87.5°	27.9	26.8	25.8	25.8	25.8
90°	1.1	5.0	7.9	10.0	10.7
92.5°	5.4	4.6	7.5	9.6	9.6
95°	19.6	7.5	7.9	10.0	10.4
97.5°	37.5	45.3	7.9	9.6	10.0
100°	58.6	65.0	15.7	9.6	10.0
102.5°	82.1	86.4	90.7	10.4	10.4
105°	107.5	109.6	111.4	114.6	101.7
107.5°	130.7	131.7	134.2	136.0	137.4
110°	154.2	155.3	157.4	158.2	159.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.1	179.2	179.9	179.6	181.0
115°	200.6	201.7	201.4	202.1	202.1
117.5°	221.7	223.1	224.2	223.8	223.8
120°	243.1	244.6	244.2	244.9	244.2
122.5°	263.1	263.8	264.5	264.9	264.2
125°	282.0	283.5	282.8	283.8	284.2
127.5°	300.2	300.6	302.4	302.0	301.7
130°	317.7	318.1	319.2	319.5	319.5
132.5°	333.8	334.5	335.9	336.3	335.9
135°	349.9	349.5	350.9	351.7	352.4
137.5°	364.2	364.2	365.9	366.7	366.3
140°	378.1	378.8	379.5	380.6	380.9
142.5°	390.6	392.0	392.4	393.1	393.1
145°	403.4	404.5	404.5	404.9	405.6
147.5°	413.4	415.6	415.2	415.6	415.9
150°	424.5	425.9	425.6	425.6	425.9
152.5°	433.8	434.8	434.1	434.8	434.5
155°	442.3	442.7	441.6	443.1	442.0
157.5°	449.8	449.8	448.4	450.2	448.4
160°	456.3	455.2	454.8	457.0	454.8
162.5°	462.0	460.5	460.2	462.3	459.8
165°	466.6	464.8	464.8	467.7	464.5
167.5°	470.5	468.8	468.4	471.6	468.0
170°	473.8	471.6	472.0	474.8	471.3
172.5°	475.9	473.8	474.1	477.0	473.0
175°	477.3	475.2	475.5	478.8	474.5
177.5°	478.4	475.9	476.6	479.5	475.2
180°	477.3	477.3	477.3	477.3	477.3

(END OF REPORT)