

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: P1025820

Luminaire Tested: S124DIP-B795D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025820
REPORT IS A COMBINATION OF REPORTS P996480 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-F4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

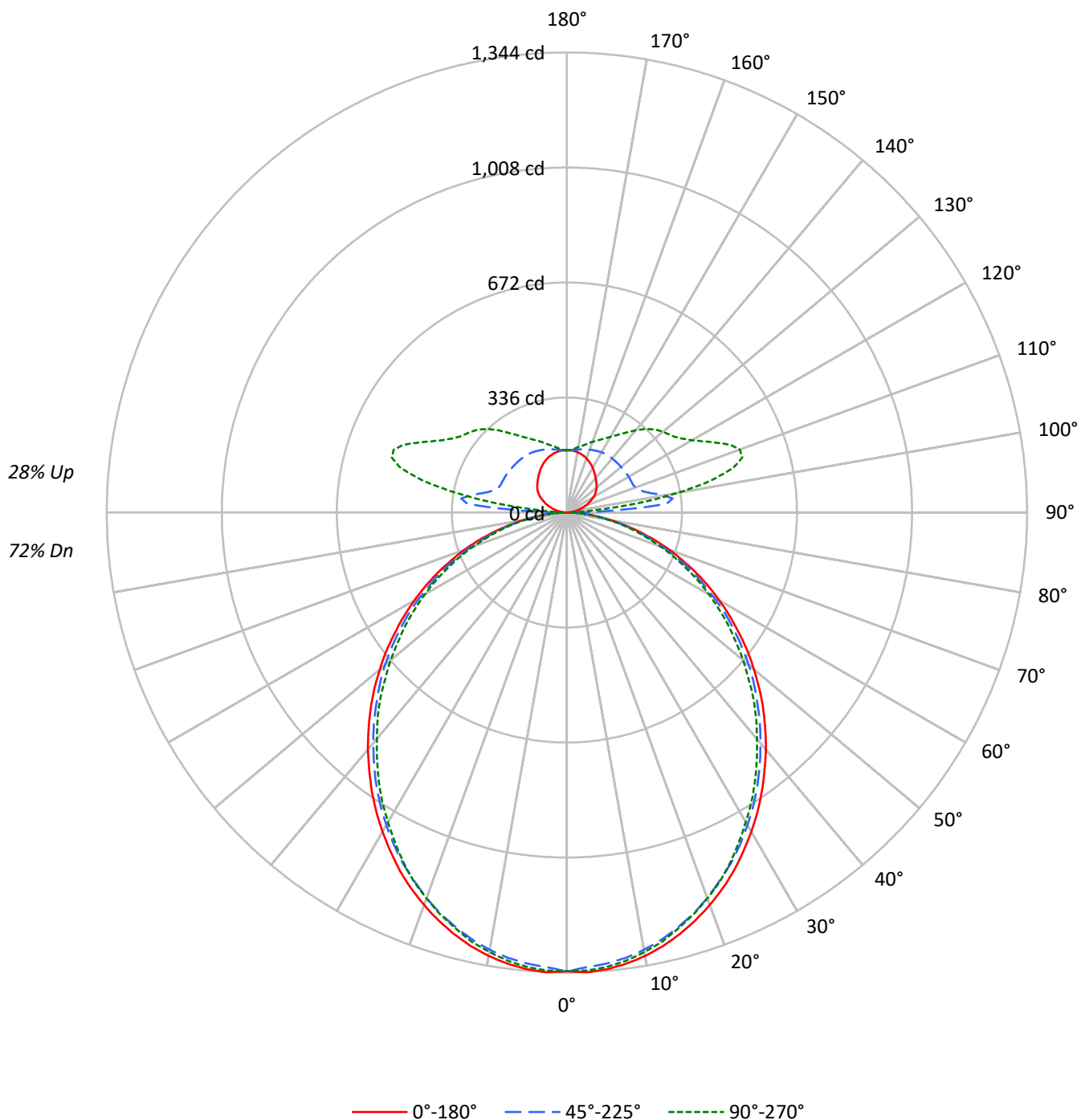
Lumens per Lamp: N/A
Luminaire Lumens: 4767.6 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	107	107	107	107	96	96	96	86	86	86	76	76	76
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	68	66	65
2	94	86	79	74	88	82	76	71	74	69	65	66	63	60	59	57	54
3	85	75	68	62	81	72	65	59	65	59	55	59	54	50	53	49	46
4	78	67	59	52	74	64	56	50	58	52	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	42	38	35
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31
7	61	49	40	35	58	47	39	34	43	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	32	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	27	24	30	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	22	28	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	7.5
20°-30°	523.8	11.0
30°-40°	608.9	12.8
40°-50°	608.8	12.8
50°-60°	532.5	11.2
60°-70°	395.3	8.3
70°-80°	224.3	4.7
80°-90°	64.9	1.4
90°-100°	135.1	2.8
100°-110°	274.7	5.8
110°-120°	244.9	5.1
120°-130°	205.7	4.3
130°-140°	171.6	3.6
140°-150°	131.1	2.7
150°-160°	92.1	1.9
160°-170°	54.2	1.1
170°-180°	17.6	0.4
0°-30°	1006.0	21.1
0°-40°	1614.9	33.9
0°-60°	2756.1	57.8
0°-90°	3440.7	72.2
90°-120°	654.6	13.7
90°-150°	1163.0	24.4
90°-180°	1327.0	27.8
0°-180°	4767.6	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°	0	3	6	7	8	5
95°	12	37	291	144	87	13
105°	42	61	234	505	503	45
115°	74	92	209	402	483	73
125°	102	122	208	342	385	91
135°	122	145	206	303	344	94
145°	140	161	205	256	281	88
155°	160	172	199	226	235	74
165°	174	179	191	202	205	49
175°	182	182	183	186	185	17
180°	182	182	182	182	182	

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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°	0.4	2.9	6.4	7.1	7.5
92.5°	5.0	27.5	140.0	46.2	32.5
95°	11.8	37.2	291.1	144.2	87.2
97.5°	19.6	41.1	311.5	294.4	209.3
100°	27.1	46.4	287.2	407.2	327.6
102.5°	34.3	52.8	256.8	478.0	430.5
105°	41.8	60.6	234.3	504.6	502.6
107.5°	50.0	68.4	219.7	496.5	536.9
110°	58.2	76.2	212.9	468.0	537.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.1	84.1	209.7	433.0	516.5
115°	73.6	92.4	209.0	401.5	482.6
117.5°	81.4	100.0	208.6	376.9	449.4
120°	89.3	107.5	208.6	360.2	422.2
122.5°	96.4	114.8	208.3	349.4	400.8
125°	102.5	121.8	207.9	341.7	385.1
127.5°	108.2	128.2	207.2	334.4	375.1
130°	112.9	134.5	206.8	325.6	366.5
132.5°	117.5	139.8	206.5	315.2	356.9
135°	121.8	145.0	206.1	303.3	344.4
137.5°	126.1	149.5	206.1	290.4	329.7
140°	130.7	153.6	205.8	277.9	313.6
142.5°	135.7	157.4	205.8	266.4	296.5
145°	140.4	160.8	205.0	255.8	281.1
147.5°	145.7	164.0	204.0	247.0	266.8
150°	150.7	167.0	202.9	239.0	255.1
152.5°	155.4	169.9	201.1	232.2	244.3
155°	159.7	172.4	199.3	225.8	235.4
157.5°	164.0	174.6	197.5	219.7	227.2
160°	167.9	176.6	195.4	213.6	219.7
162.5°	171.5	178.2	193.3	207.8	212.5
165°	174.0	179.4	191.1	202.4	205.4
167.5°	176.8	180.2	189.0	197.8	199.7
170°	178.6	181.0	186.8	193.0	194.3
172.5°	180.4	181.4	184.7	189.0	189.0
175°	181.5	181.8	183.3	185.8	185.0
177.5°	182.2	181.8	182.2	183.4	182.2
180°	181.8	181.8	181.8	181.8	181.8

(END OF REPORT)