

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: P1025726

Luminaire Tested: S124DIP-B795D1035UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025726
REPORT IS A COMBINATION OF REPORTS P996356 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

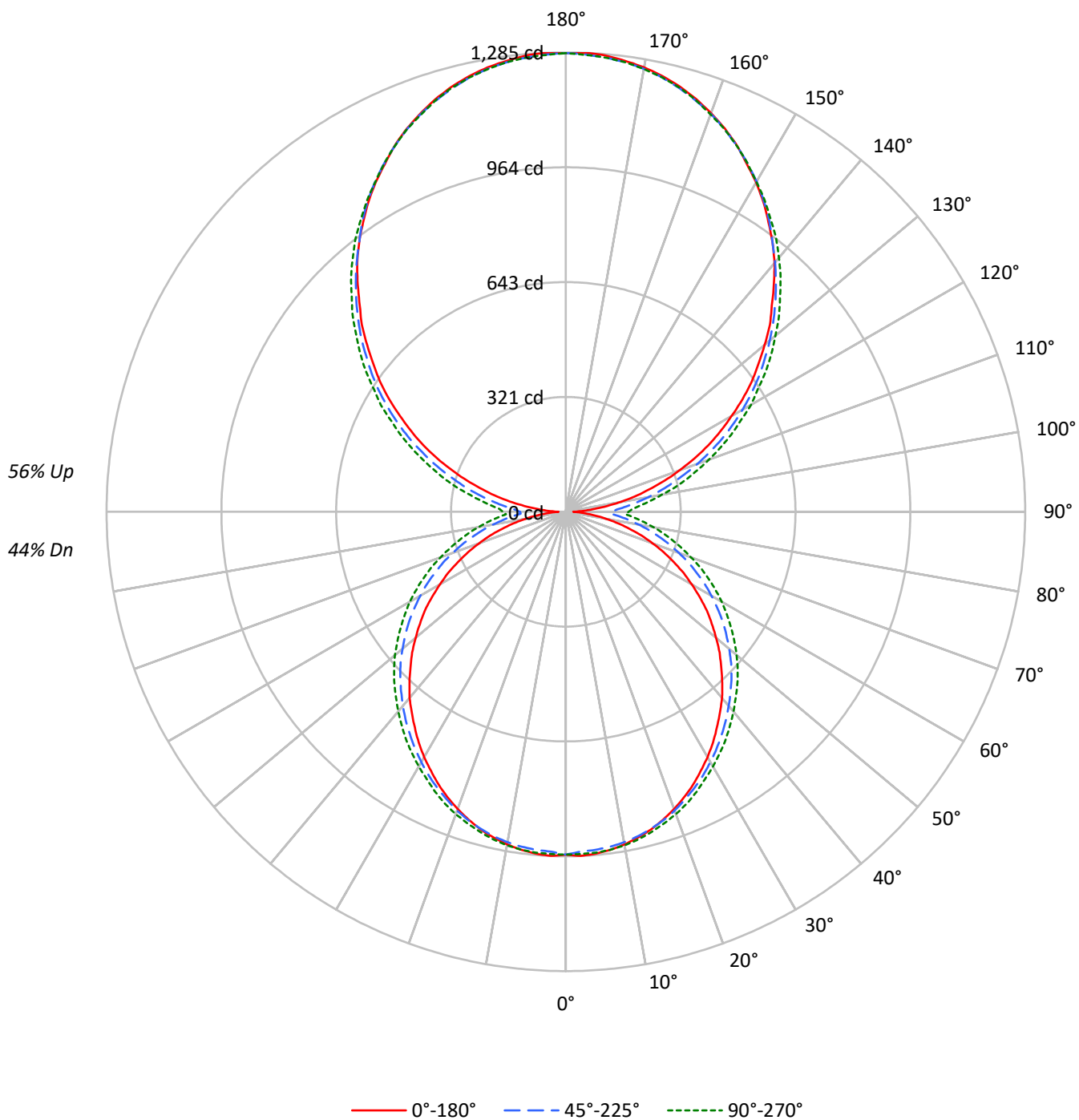
Lumens per Lamp: N/A
Luminaire Lumens: 6833.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	83	80	76	69	66	64	56	54	52	44	42	41
2	87	79	72	67	79	72	67	62	60	56	52	48	45	43	38	36	34
3	79	69	61	55	72	63	57	51	52	47	43	42	39	36	33	31	28
4	72	61	53	46	65	56	49	43	46	41	37	38	34	30	29	27	24
5	66	54	46	40	60	50	42	37	41	36	31	34	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	24	21	18
7	56	43	35	30	51	40	33	28	34	28	24	27	23	20	22	19	16
8	52	39	32	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7821	7821	7821
5°	7843	7617	7631
10°	7791	7467	7446
15°	7718	7299	7237
20°	7611	7116	7034
25°	7489	6915	6816
30°	7357	6715	6593
35°	7208	6512	6395
40°	7089	6317	6190
45°	6911	6133	6008
50°	6761	5924	5816
55°	6605	5723	5595
60°	6364	5473	5387
65°	6097	5203	5138
70°	5774	4896	4849
75°	5323	4553	4573
80°	4816	4204	4286
85°	4141	3854	4052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.3
10°-20°	260.4	3.8
20°-30°	393.7	5.8
30°-40°	476.3	7.0
40°-50°	503.5	7.4
50°-60°	473.9	6.9
60°-70°	393.2	5.8
70°-80°	276.0	4.0
80°-90°	158.3	2.3
90°-100°	176.2	2.6
100°-110°	319.1	4.7
110°-120°	471.6	6.9
120°-130°	587.2	8.6
130°-140°	641.6	9.4
140°-150°	621.8	9.1
150°-160°	521.1	7.6
160°-170°	346.7	5.1
170°-180°	121.4	1.8
0°-30°	744.9	10.9
0°-40°	1221.2	17.9
0°-60°	2198.6	32.2
0°-90°	3026.1	44.3
90°-120°	967.0	14.2
90°-150°	2817.6	41.2
90°-180°	3807.0	55.7
0°-180°	6833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	960	957	949	958	957	91
15°	920	922	918	928	927	259
25°	842	848	852	864	865	388
35°	737	750	760	776	779	461
45°	614	635	655	673	679	475
55°	481	504	536	557	564	429
65°	333	367	404	431	439	330
75°	185	224	270	300	309	196
85°	57	102	150	183	193	59
90°	20	74	128	165	176	16
95°	74	118	169	201	210	76
105°	241	263	307	337	348	256
115°	439	449	481	504	510	434
125°	634	633	659	678	682	566
135°	815	821	828	844	847	631
145°	988	991	992	998	999	619
155°	1131	1131	1130	1134	1130	521
165°	1232	1229	1227	1232	1229	347
175°	1281	1276	1275	1282	1275	122
180°	1283	1283	1283	1283	1283	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.1	959.1	959.1	959.1	959.1
2.5°	963.4	960.2	951.6	959.1	958.0
5°	960.2	957.0	949.4	958.0	957.0
7.5°	953.7	951.6	945.1	954.8	953.7
10°	945.1	944.1	938.7	948.4	947.3
12.5°	933.3	933.3	930.1	938.7	938.7
15°	920.4	921.5	918.3	928.0	926.9
17.5°	903.3	906.5	905.4	915.1	914.0
20°	885.0	888.2	889.3	900.0	900.0
22.5°	864.6	868.9	871.0	881.8	883.9
25°	842.0	848.5	851.7	863.5	864.6
27.5°	817.3	827.0	831.3	842.0	843.1
30°	792.6	801.2	808.7	820.6	822.7
32.5°	765.8	776.5	785.1	799.1	801.2
35°	736.8	749.7	760.4	775.5	778.7
37.5°	707.8	722.8	735.7	750.7	754.0
40°	679.9	693.8	708.9	725.0	729.3
42.5°	647.6	663.8	682.0	700.3	703.5
45°	614.3	634.8	655.2	673.4	678.8
47.5°	583.2	603.6	627.2	645.5	651.9
50°	548.8	572.5	596.1	617.6	624.0
52.5°	514.5	538.1	566.0	587.5	593.9
55°	481.2	503.7	535.9	557.4	563.9
57.5°	443.6	471.5	502.6	528.4	533.8
60°	407.1	435.0	470.4	495.1	503.7
62.5°	371.6	402.8	438.2	462.9	471.5
65°	332.9	367.3	403.8	430.7	439.3
67.5°	296.4	332.9	371.6	398.5	407.1
70°	258.8	295.4	336.2	365.2	372.7
72.5°	222.3	259.9	304.0	331.9	340.5
75°	184.7	224.5	269.6	299.7	309.3
77.5°	149.3	191.2	238.4	268.5	279.2
80°	117.1	160.0	207.3	239.5	248.1
82.5°	84.8	130.0	177.2	210.5	220.2
85°	56.9	102.0	150.4	182.6	193.3
87.5°	35.4	79.5	126.7	157.9	167.5
90°	20.2	74.0	128.1	165.3	175.9
92.5°	41.9	92.4	143.6	176.6	186.2
95°	73.5	117.9	168.8	200.8	210.5
97.5°	108.2	147.2	199.2	231.1	240.8
100°	150.7	182.6	233.4	264.4	271.9
102.5°	196.4	221.0	269.8	300.7	310.3
105°	240.9	263.3	307.1	336.9	348.4
107.5°	289.6	308.7	347.3	378.2	384.7
110°	338.1	355.1	391.7	414.4	426.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	388.6	401.5	434.9	458.6	467.2
115°	439.1	448.8	481.2	503.8	510.3
117.5°	487.7	494.2	525.4	545.0	550.7
120°	535.3	542.5	570.6	587.2	597.7
122.5°	585.9	586.9	614.9	633.4	636.0
125°	634.5	633.4	659.3	677.7	682.1
127.5°	679.1	681.0	700.5	717.8	724.4
130°	725.7	727.5	744.7	762.1	764.6
132.5°	774.3	775.2	787.1	803.4	808.8
135°	814.9	820.8	828.4	843.6	847.1
137.5°	861.5	863.5	869.8	882.9	889.3
140°	908.1	909.1	910.1	923.1	927.5
142.5°	949.8	951.8	949.7	961.5	965.8
145°	988.5	991.4	992.4	997.8	999.1
147.5°	1028.2	1032.1	1031.1	1031.2	1034.5
150°	1063.9	1066.8	1066.8	1066.8	1065.8
152.5°	1096.6	1098.6	1099.6	1102.5	1099.6
155°	1131.3	1131.3	1130.3	1134.3	1130.3
157.5°	1161.1	1159.1	1159.1	1162.1	1159.1
160°	1186.9	1185.9	1184.9	1187.9	1182.9
162.5°	1210.7	1207.7	1206.7	1212.7	1207.7
165°	1231.5	1228.6	1226.6	1232.5	1228.6
167.5°	1248.4	1244.4	1244.4	1250.4	1244.4
170°	1262.3	1257.3	1258.3	1264.3	1257.3
172.5°	1272.2	1268.3	1268.3	1275.2	1268.3
175°	1281.2	1276.2	1275.2	1282.2	1275.2
177.5°	1285.1	1280.2	1280.2	1287.1	1279.2
180°	1283.1	1283.1	1283.1	1283.1	1283.1

(END OF REPORT)