

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: P1025735

Luminaire Tested: S124DIP-B795D1035UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025735
REPORT IS A COMBINATION OF REPORTS P996365 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

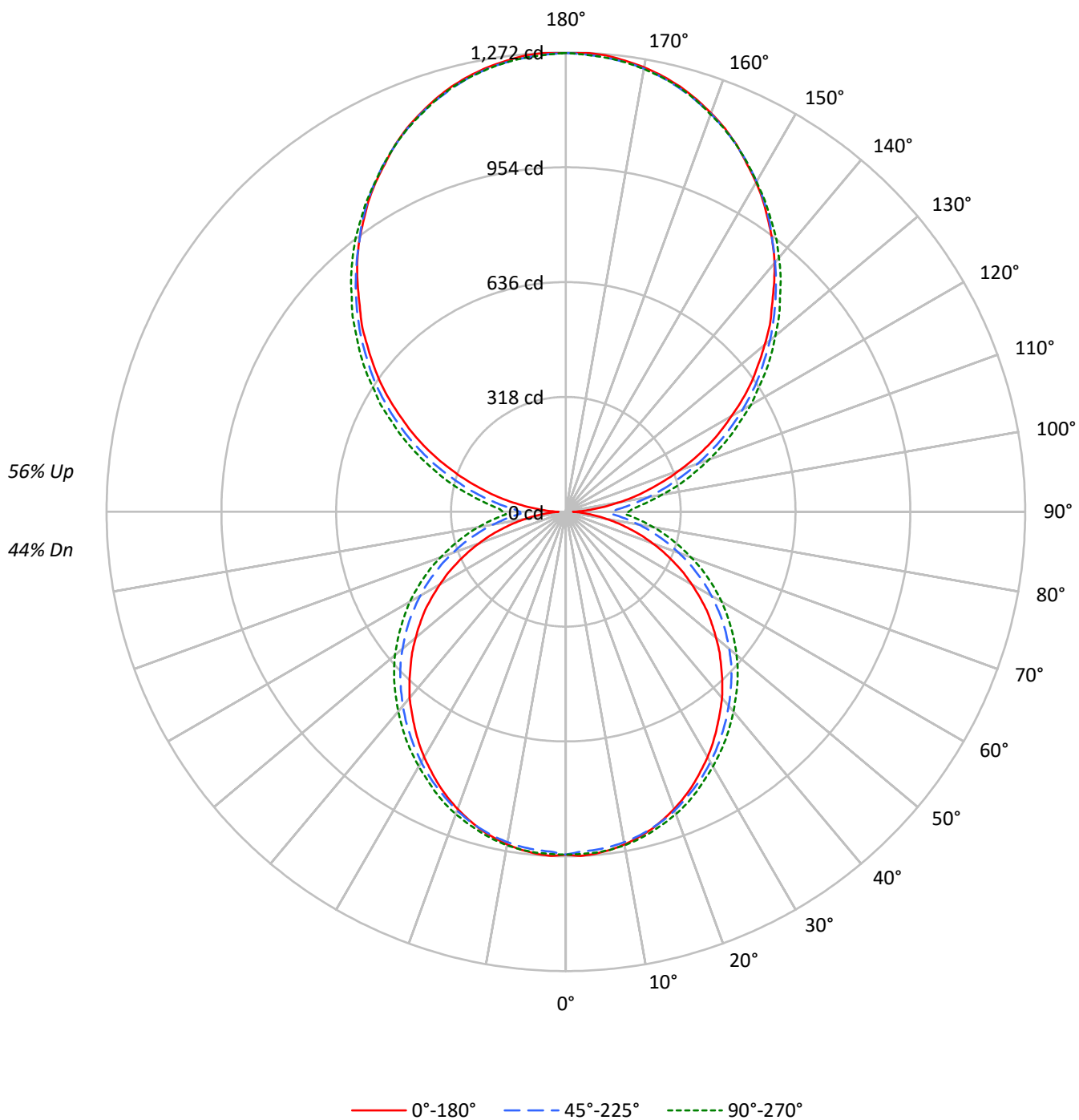
Lumens per Lamp: N/A
Luminaire Lumens: 6765.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	7742	7742	7742
5°	7763	7541	7554
10°	7713	7392	7371
15°	7641	7225	7164
20°	7534	7044	6964
25°	7413	6845	6747
30°	7283	6648	6527
35°	7136	6446	6330
40°	7017	6253	6127
45°	6842	6071	5947
50°	6693	5865	5757
55°	6538	5665	5539
60°	6300	5418	5333
65°	6036	5152	5085
70°	5716	4846	4799
75°	5271	4507	4527
80°	4767	4162	4242
85°	4097	3813	4012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6842 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.3
10°-20°	257.7	3.8
20°-30°	389.7	5.8
30°-40°	471.5	7.0
40°-50°	498.4	7.4
50°-60°	469.1	6.9
60°-70°	389.3	5.8
70°-80°	273.2	4.0
80°-90°	156.7	2.3
90°-100°	174.5	2.6
100°-110°	316.0	4.7
110°-120°	467.0	6.9
120°-130°	581.4	8.6
130°-140°	635.3	9.4
140°-150°	615.7	9.1
150°-160°	516.0	7.6
160°-170°	343.3	5.1
170°-180°	120.2	1.8
0°-30°	737.4	10.9
0°-40°	1208.9	17.9
0°-60°	2176.5	32.2
0°-90°	2995.6	44.3
90°-120°	957.4	14.2
90°-150°	2789.9	41.2
90°-180°	3769.0	55.7
0°-180°	6765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	950	947	940	948	947	90
15°	911	912	909	919	918	257
25°	834	840	843	855	856	384
35°	729	742	753	768	771	457
45°	608	628	648	667	672	470
55°	476	499	530	552	558	424
65°	330	364	400	426	435	327
75°	183	222	267	297	306	194
85°	56	101	149	181	191	59
90°	20	73	127	164	174	16
95°	73	117	167	199	208	75
105°	239	261	304	334	345	254
115°	435	444	476	499	505	429
125°	628	627	653	671	675	560
135°	807	813	820	835	839	625
145°	979	982	983	988	989	613
155°	1120	1120	1119	1123	1119	516
165°	1219	1216	1214	1220	1216	344
175°	1269	1264	1263	1270	1263	120
180°	1270	1270	1270	1270	1270	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.4	949.4	949.4	949.4	949.4
2.5°	953.7	950.5	942.0	949.4	948.4
5°	950.5	947.3	939.9	948.4	947.3
7.5°	944.1	942.0	935.6	945.2	944.1
10°	935.6	934.5	929.2	938.8	937.7
12.5°	923.9	923.9	920.7	929.2	929.2
15°	911.2	912.2	909.0	918.6	917.5
17.5°	894.1	897.3	896.3	905.8	904.8
20°	876.1	879.3	880.3	891.0	891.0
22.5°	855.9	860.1	862.2	872.9	875.0
25°	833.5	839.9	843.1	854.8	855.9
27.5°	809.1	818.7	822.9	833.5	834.6
30°	784.6	793.1	800.6	812.3	814.4
32.5°	758.1	768.7	777.2	791.0	793.1
35°	729.4	742.1	752.7	767.6	770.8
37.5°	700.6	715.5	728.3	743.2	746.4
40°	673.0	686.8	701.7	717.7	721.9
42.5°	641.1	657.1	675.1	693.2	696.4
45°	608.1	628.3	648.5	666.6	671.9
47.5°	577.3	597.5	620.9	639.0	645.4
50°	543.3	566.7	590.1	611.3	617.7
52.5°	509.3	532.7	560.3	581.6	587.9
55°	476.3	498.6	530.5	551.8	558.2
57.5°	439.1	466.7	497.6	523.1	528.4
60°	403.0	430.6	465.7	490.1	498.6
62.5°	367.9	398.7	433.8	458.2	466.7
65°	329.6	363.6	399.8	426.3	434.8
67.5°	293.4	329.6	367.9	394.4	403.0
70°	256.2	292.4	332.8	361.5	368.9
72.5°	220.1	257.3	300.9	328.5	337.0
75°	182.9	222.2	266.9	296.6	306.2
77.5°	147.8	189.2	236.0	265.8	276.4
80°	115.9	158.4	205.2	237.1	245.6
82.5°	84.0	128.6	175.4	208.4	218.0
85°	56.3	101.0	148.8	180.7	191.4
87.5°	35.1	78.7	125.5	156.3	165.9
90°	19.9	73.3	126.9	163.6	174.1
92.5°	41.4	91.5	142.1	174.8	184.4
95°	72.8	116.7	167.2	198.8	208.4
97.5°	107.1	145.8	197.3	228.8	238.4
100°	149.3	180.8	231.1	261.8	269.3
102.5°	194.5	218.9	267.1	297.7	307.1
105°	238.6	260.7	304.1	333.6	345.1
107.5°	286.7	305.7	344.0	374.4	380.9
110°	334.7	351.6	387.8	410.4	421.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.7	397.5	430.7	454.1	462.6
115°	434.8	444.3	476.5	498.9	505.3
117.5°	483.0	489.4	520.3	539.6	545.2
120°	530.0	537.2	565.0	581.4	591.9
122.5°	580.1	581.1	608.8	627.2	629.7
125°	628.3	627.2	652.8	671.0	675.4
127.5°	672.5	674.3	693.7	710.8	717.2
130°	718.6	720.4	737.4	754.6	757.1
132.5°	766.7	767.6	779.4	795.5	800.8
135°	806.9	812.8	820.3	835.3	838.8
137.5°	853.1	855.0	861.2	874.2	880.5
140°	899.2	900.2	901.2	914.0	918.4
142.5°	940.5	942.5	940.4	952.1	956.3
145°	978.8	981.6	982.6	988.0	989.3
147.5°	1018.1	1021.9	1021.0	1021.1	1024.3
150°	1053.5	1056.3	1056.3	1056.3	1055.3
152.5°	1085.8	1087.8	1088.8	1091.7	1088.8
155°	1120.2	1120.2	1119.2	1123.1	1119.2
157.5°	1149.7	1147.7	1147.7	1150.7	1147.7
160°	1175.2	1174.2	1173.3	1176.2	1171.3
162.5°	1198.8	1195.9	1194.9	1200.8	1195.9
165°	1219.4	1216.5	1214.5	1220.4	1216.5
167.5°	1236.1	1232.2	1232.2	1238.1	1232.2
170°	1249.9	1245.0	1246.0	1251.9	1245.0
172.5°	1259.7	1255.8	1255.8	1262.7	1255.8
175°	1268.6	1263.7	1262.7	1269.6	1262.7
177.5°	1272.5	1267.6	1267.6	1274.5	1266.6
180°	1270.5	1270.5	1270.5	1270.5	1270.5

(END OF REPORT)