

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: P1025826

Luminaire Tested: S124DIP-B795D365UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025826
REPORT IS A COMBINATION OF REPORTS P996486 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D365UB40-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

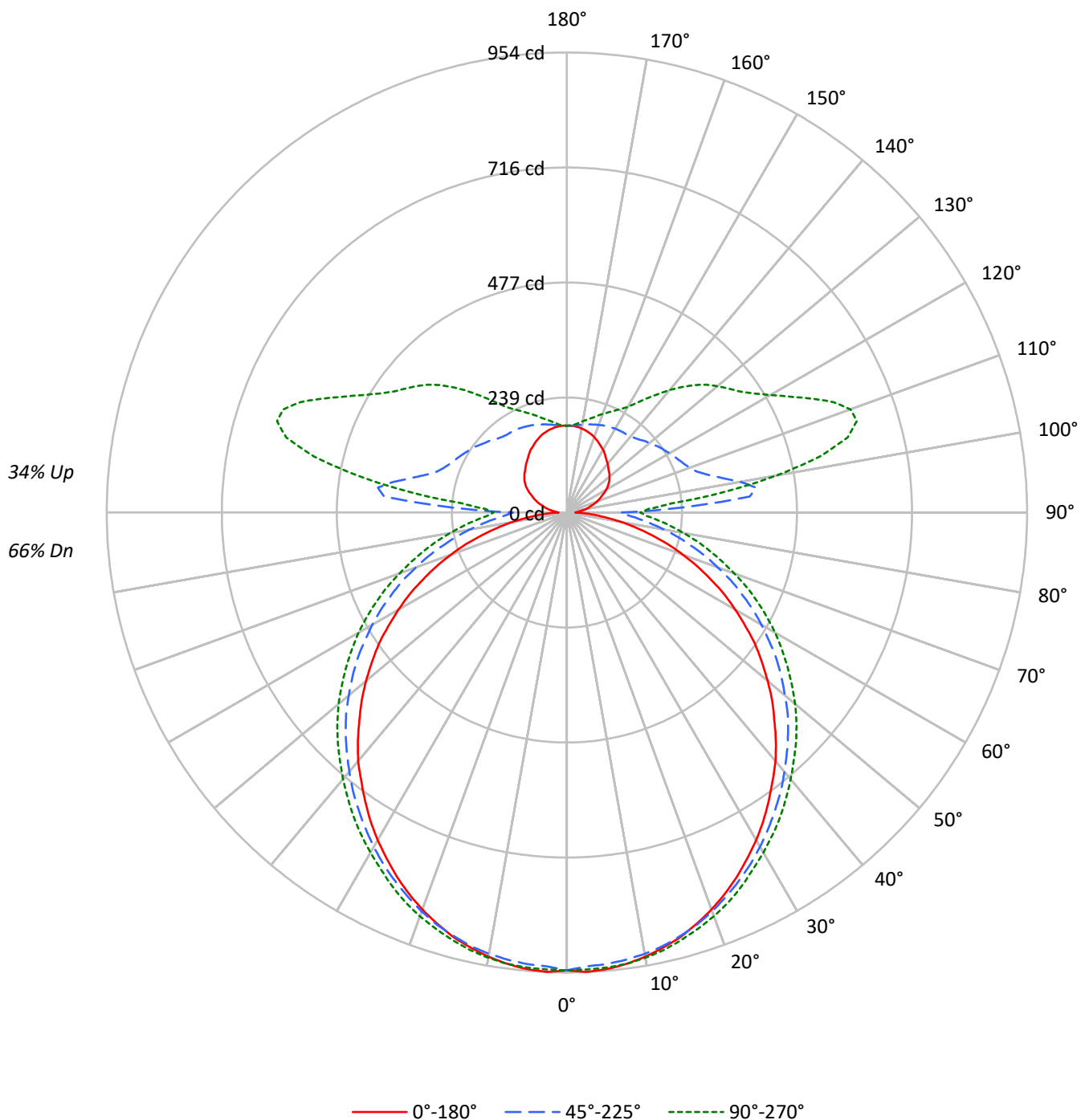
Lumens per Lamp: N/A
Luminaire Lumens: 4550.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1025826

CATALOG NUMBER: S124DIP-B795D365UB40-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1025826

CATALOG NUMBER: S124DIP-B795D365UB40-4F0-XX-W2A-D4

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	100	95	90	86	94	89	85	82	79	76	73	69	67	65	60	59	57
2	91	82	75	70	85	77	71	66	68	64	59	60	56	53	52	49	47
3	82	72	64	57	77	68	60	55	60	54	49	53	48	44	46	42	39
4	75	63	55	48	70	60	52	46	53	47	42	47	42	38	41	37	34
5	69	56	48	41	64	53	45	39	47	41	36	42	36	32	37	32	29
6	63	50	42	36	59	48	40	34	42	36	31	38	32	28	33	29	25
7	59	46	37	31	55	43	35	30	38	32	27	34	29	25	30	26	22
8	54	41	33	27	51	39	32	26	35	29	24	31	26	22	28	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	47	35	27	22	44	33	26	21	30	24	20	27	22	18	24	19	16

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

TEST NUMBER: P1025826

CATALOG NUMBER: S124DIP-B795D365UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	2.0
10°-20°	257.7	5.7
20°-30°	389.7	8.6
30°-40°	471.5	10.4
40°-50°	498.4	11.0
50°-60°	469.1	10.3
60°-70°	389.3	8.6
70°-80°	273.2	6.0
80°-90°	154.7	3.4
90°-100°	225.3	5.0
100°-110°	339.7	7.5
110°-120°	287.8	6.3
120°-130°	229.2	5.0
130°-140°	180.9	4.0
140°-150°	131.9	2.9
150°-160°	91.2	2.0
160°-170°	53.6	1.2
170°-180°	17.4	0.4
0°-30°	737.4	16.2
0°-40°	1208.9	26.6
0°-60°	2176.5	47.8
0°-90°	2993.6	65.8
90°-120°	852.8	18.7
90°-150°	1394.8	30.7
90°-180°	1557.0	34.2
0°-180°	4550.6	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°	17	62	112	143	152	12
95°	26	86	381	264	217	24
105°	51	91	302	596	603	55
115°	79	107	257	471	558	79
125°	106	124	236	388	437	94
135°	123	146	214	327	374	95
145°	140	159	203	259	289	88
155°	158	171	197	223	233	73
165°	172	177	189	200	203	49
175°	180	180	181	184	183	17
180°	180	180	180	180	180	

TEST NUMBER: P1025826

CATALOG NUMBER: S124DIP-B795D365UB40-4F0-XX-W2A-D4

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°	17.4	62.3	111.7	143.2	152.0
92.5°	20.8	80.4	237.5	174.4	169.4
95°	25.5	85.6	380.6	263.8	217.0
97.5°	32.2	84.2	395.4	406.0	331.5
100°	38.6	85.2	365.0	512.4	441.1
102.5°	45.6	87.4	329.6	576.0	537.5
105°	51.0	90.7	302.1	596.0	602.6
107.5°	59.1	95.3	282.3	582.6	630.1
110°	66.1	98.8	271.3	548.2	625.5

TEST NUMBER: P1025826

CATALOG NUMBER: S124DIP-B795D365UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.8	103.4	262.8	507.0	598.3
115°	79.2	107.2	256.8	470.6	558.3
117.5°	87.0	111.8	251.1	439.8	520.1
120°	93.7	114.8	245.7	417.0	486.9
122.5°	100.7	119.0	240.1	401.0	459.3
125°	105.7	123.8	235.5	388.1	437.3
127.5°	111.4	130.0	229.5	374.4	422.1
130°	114.9	135.2	223.7	360.4	407.3
132.5°	119.5	140.4	219.2	345.0	392.4
135°	122.6	145.6	213.5	326.6	373.7
137.5°	126.9	149.0	209.2	308.7	352.8
140°	131.5	153.0	205.7	290.9	331.6
142.5°	135.4	156.8	203.6	275.2	309.3
145°	140.0	159.0	202.9	259.4	288.8
147.5°	145.3	162.2	201.8	245.5	269.3
150°	150.3	165.2	200.8	236.4	252.4
152.5°	153.7	168.1	199.0	229.8	241.8
155°	158.0	170.6	197.2	223.4	232.9
157.5°	162.2	172.8	195.5	217.4	224.8
160°	166.1	174.8	193.3	211.4	217.4
162.5°	169.7	176.4	191.2	205.6	210.3
165°	172.1	177.4	189.1	200.2	203.2
167.5°	175.0	178.3	187.0	195.6	197.6
170°	176.7	179.0	184.9	191.0	192.3
172.5°	178.5	179.6	182.7	187.0	187.0
175°	179.6	179.9	181.3	183.8	183.1
177.5°	180.3	179.9	180.3	181.5	180.3
180°	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)