

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: P1025781

Luminaire Tested: S124DIP-B795D1205UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025781
REPORT IS A COMBINATION OF REPORTS P996426 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB40-4F0-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

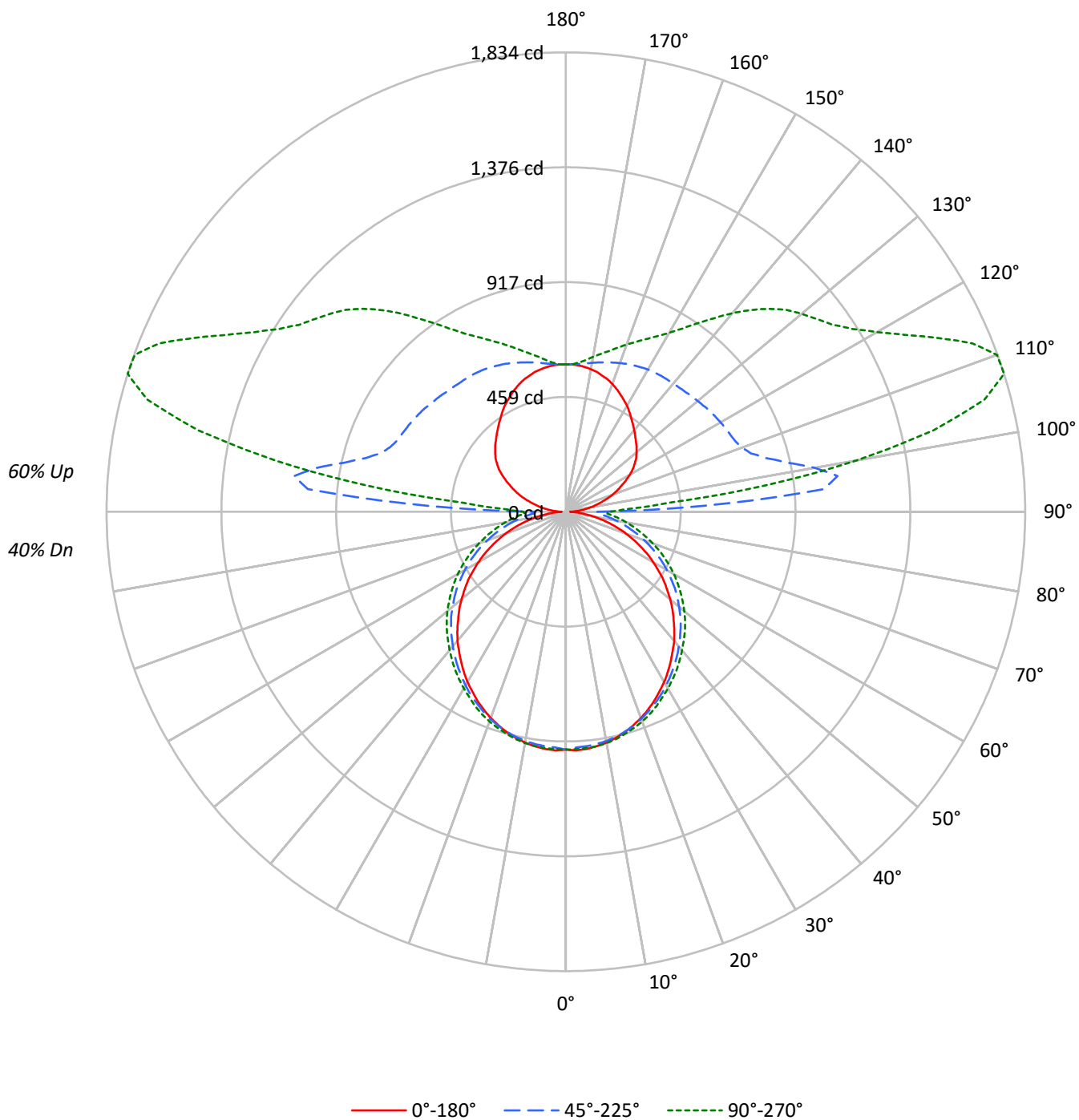
Lumens per Lamp: N/A
Luminaire Lumens: 7528.6 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40		
1	95	90	86	82	86	82	78	75	67	64	62	53	51	50	40	39	38	32		
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31	26		
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26	22		
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	24	22	18		
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19	16		
6	60	48	40	34	54	44	37	31	36	30	26	29	25	22	22	19	17	14		
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15	12		
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13	11		
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	10		
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9		

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	1.2
10°-20°	257.7	3.4
20°-30°	389.7	5.2
30°-40°	471.5	6.3
40°-50°	498.4	6.6
50°-60°	469.1	6.2
60°-70°	389.3	5.2
70°-80°	273.2	3.6
80°-90°	156.3	2.1
90°-100°	528.3	7.0
100°-110°	955.9	12.7
110°-120°	837.0	11.1
120°-130°	690.5	9.2
130°-140°	565.9	7.5
140°-150°	425.9	5.7
150°-160°	297.8	4.0
160°-170°	175.2	2.3
170°-180°	57.0	0.8
0°-30°	737.4	9.8
0°-40°	1208.9	16.1
0°-60°	2176.5	28.9
0°-90°	2995.1	39.8
90°-120°	2321.2	30.8
90°-150°	4003.5	53.2
90°-180°	4533.0	60.2
0°-180°	7528.6	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°	18	69	126	159	169	14
95°	52	169	1034	587	412	53
105°	145	227	828	1728	1730	155
115°	244	314	726	1371	1641	243
125°	336	397	702	1154	1301	299
135°	396	471	676	1007	1146	306
145°	455	520	663	833	919	286
155°	516	557	644	730	761	238
165°	562	580	618	654	664	159
175°	587	588	592	600	598	56
180°	588	588	588	588	588	

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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°	18.2	68.7	126.1	159.2	168.8
92.5°	32.1	142.1	551.5	278.2	242.3
95°	51.9	169.0	1033.6	587.1	412.5
97.5°	76.3	176.4	1094.1	1066.2	801.1
100°	99.5	189.4	1009.2	1425.8	1175.9
102.5°	122.6	206.0	905.7	1648.0	1503.0
105°	144.7	226.6	827.7	1727.8	1730.0
107.5°	171.3	248.8	775.0	1696.4	1834.4
110°	196.7	269.9	748.8	1597.8	1831.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.0	292.1	733.1	1478.2	1756.9
115°	244.3	314.4	725.5	1371.3	1640.8
117.5°	269.7	336.2	719.0	1285.2	1528.1
120°	294.0	356.0	713.6	1225.1	1434.0
122.5°	317.1	376.5	707.2	1184.6	1358.3
125°	335.7	397.0	701.8	1154.4	1301.1
127.5°	354.2	417.7	694.2	1124.4	1263.4
130°	368.1	436.8	687.7	1090.8	1229.4
132.5°	383.1	454.2	682.3	1052.0	1192.8
135°	395.9	470.9	675.9	1007.0	1146.1
137.5°	409.7	484.4	671.6	960.0	1092.4
140°	424.7	497.6	667.2	914.2	1035.1
142.5°	439.9	509.8	665.1	872.5	974.3
145°	454.9	519.6	662.8	833.2	919.4
147.5°	472.2	530.0	659.3	799.6	867.9
150°	488.4	539.8	655.9	772.5	824.5
152.5°	502.3	549.0	650.1	750.6	789.8
155°	516.2	557.2	644.3	729.8	760.9
157.5°	530.0	564.7	638.6	710.2	734.4
160°	542.7	571.0	631.6	690.5	710.1
162.5°	554.3	576.2	624.7	671.4	687.0
165°	562.3	579.7	617.8	654.2	664.0
167.5°	571.6	582.6	610.8	639.2	645.5
170°	577.4	584.8	603.9	624.1	628.2
172.5°	583.1	586.6	597.0	610.8	610.8
175°	586.6	587.7	592.4	600.4	598.1
177.5°	588.9	587.7	588.9	593.0	588.9
180°	587.7	587.7	587.7	587.7	587.7

(END OF REPORT)