

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: P1025853

Luminaire Tested: S124DIP-B795D590UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025853
REPORT IS A COMBINATION OF REPORTS P996528 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D590UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

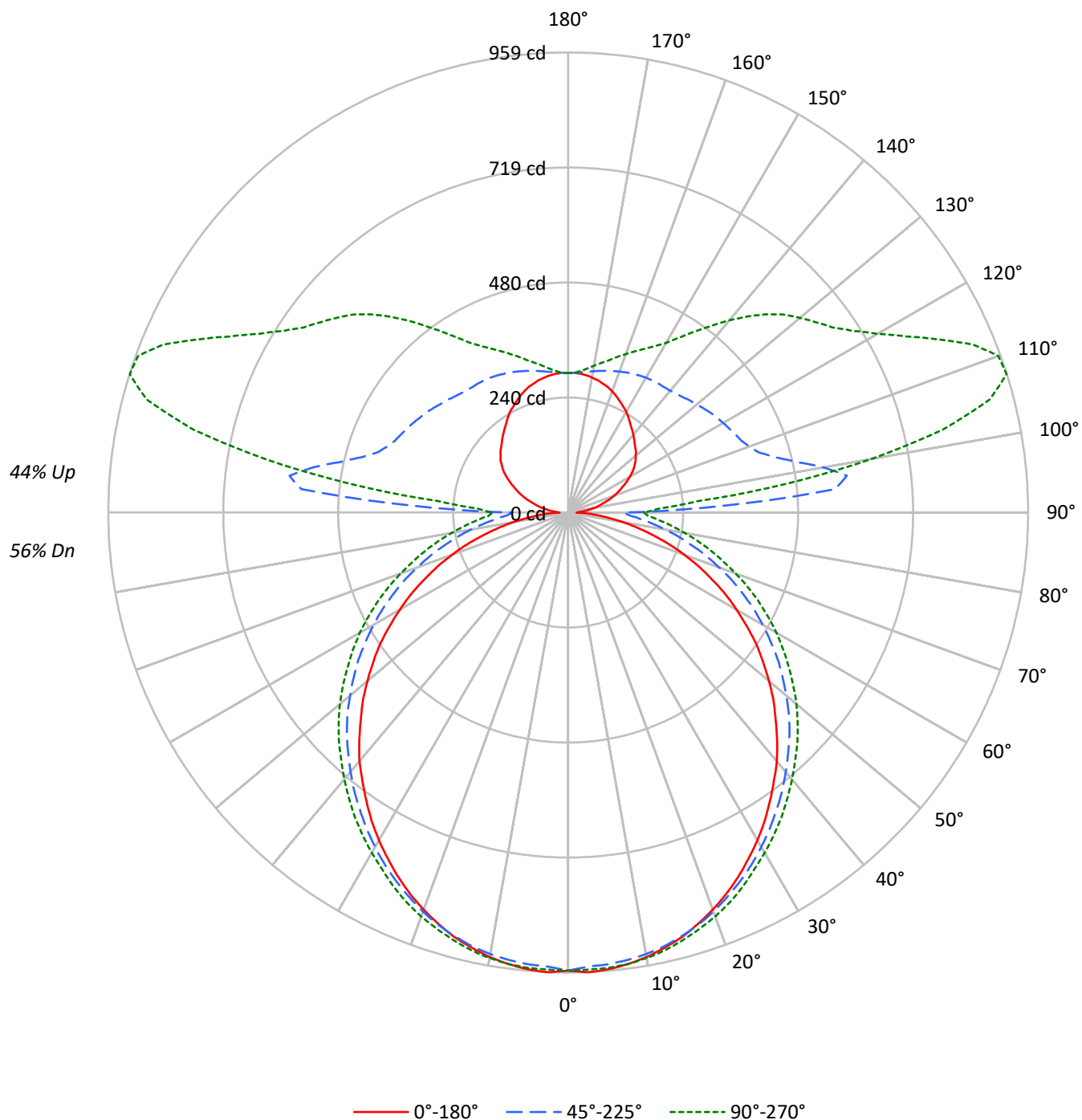
Lumens per Lamp: N/A
Luminaire Lumens: 5380.2 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	98	93	89	85		91	87	83	79		74	71	69		63	61	59		53	51	50
2	89	81	74	68		82	75	69	64		64	60	56		55	51	48		46	43	41
3	81	71	63	56		75	66	59	53		56	51	47		48	44	40		40	37	34
4	74	62	54	47		68	58	50	45		50	44	39		42	38	34		36	32	29
5	67	55	47	40		62	52	44	38		45	38	34		38	33	29		32	28	25
6	62	49	41	35		57	46	39	33		40	34	29		34	29	26		29	25	22
7	57	45	36	30		53	42	34	29		36	30	26		31	26	23		26	22	20
8	53	40	32	27		49	38	31	25		33	27	23		28	24	20		24	20	17
9	50	37	29	24		46	35	28	23		30	24	20		26	21	18		22	18	16
10	46	34	26	21		43	32	25	20		28	22	18		24	20	16		21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7788	7788	7788
5°	7809	7585	7599
10°	7758	7435	7414
15°	7686	7268	7206
20°	7578	7086	7005
25°	7457	6886	6787
30°	7325	6687	6565
35°	7177	6485	6367
40°	7059	6289	6162
45°	6882	6107	5982
50°	6732	5899	5791
55°	6577	5698	5572
60°	6336	5450	5365
65°	6071	5181	5115
70°	5749	4874	4828
75°	5300	4533	4554
80°	4796	4186	4267
85°	4126	3836	4035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.7
10°-20°	259.3	4.8
20°-30°	392.0	7.3
30°-40°	474.3	8.8
40°-50°	501.4	9.3
50°-60°	471.9	8.8
60°-70°	391.5	7.3
70°-80°	274.8	5.1
80°-90°	156.0	2.9
90°-100°	308.3	5.7
100°-110°	507.8	9.4
110°-120°	437.6	8.1
120°-130°	354.9	6.6
130°-140°	285.8	5.3
140°-150°	211.9	3.9
150°-160°	147.4	2.7
160°-170°	86.7	1.6
170°-180°	28.2	0.5
0°-30°	741.8	13.8
0°-40°	1216.0	22.6
0°-60°	2189.2	40.7
0°-90°	3011.6	56.0
90°-120°	1253.7	23.3
90°-150°	2106.3	39.1
90°-180°	2369.0	44.0
0°-180°	5380.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	945	954	953	91
15°	916	918	914	924	923	258
25°	838	845	848	860	861	386
35°	734	746	757	772	775	459
45°	612	632	652	670	676	473
55°	479	502	534	555	562	427
65°	332	366	402	429	437	329
75°	184	224	268	298	308	195
85°	57	102	150	182	192	59
90°	18	64	116	148	157	13
95°	33	109	559	352	271	32
105°	76	128	446	905	910	82
115°	124	164	385	716	854	124
125°	168	198	362	597	673	150
135°	197	234	339	512	584	153
145°	226	257	328	416	460	142
155°	256	276	319	361	377	118
165°	278	287	306	324	329	79
175°	290	291	293	297	296	28
180°	291	291	291	291	291	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.0	955.0	955.0	955.0	955.0
2.5°	959.3	956.1	947.5	955.0	953.9
5°	956.1	952.9	945.4	953.9	952.9
7.5°	949.7	947.5	941.1	950.7	949.7
10°	941.1	940.0	934.7	944.3	943.2
12.5°	929.3	929.3	926.1	934.7	934.7
15°	916.5	917.6	914.4	924.0	922.9
17.5°	899.4	902.6	901.5	911.2	910.1
20°	881.2	884.4	885.5	896.2	896.2
22.5°	860.9	865.2	867.3	878.0	880.1
25°	838.4	844.9	848.1	859.8	860.9
27.5°	813.8	823.5	827.7	838.4	839.5
30°	789.2	797.8	805.3	817.0	819.2
32.5°	762.5	773.2	781.8	795.7	797.8
35°	733.6	746.5	757.2	772.1	775.3
37.5°	704.8	719.7	732.6	747.5	750.7
40°	677.0	690.9	705.8	721.9	726.1
42.5°	644.9	660.9	679.1	697.3	700.5
45°	611.7	632.0	652.4	670.5	675.9
47.5°	580.7	601.0	624.5	642.7	649.1
50°	546.5	570.0	593.5	614.9	621.3
52.5°	512.3	535.8	563.6	585.0	591.4
55°	479.1	501.6	533.6	555.0	561.5
57.5°	441.7	469.5	500.5	526.2	531.5
60°	405.3	433.1	468.4	493.0	501.6
62.5°	370.0	401.0	436.3	460.9	469.5
65°	331.5	365.7	402.1	428.8	437.4
67.5°	295.2	331.5	370.0	396.8	405.3
70°	257.7	294.1	334.7	363.6	371.1
72.5°	221.4	258.8	302.6	330.5	339.0
75°	183.9	223.5	268.4	298.4	308.0
77.5°	148.7	190.4	237.4	267.4	278.1
80°	116.6	159.3	206.4	238.5	247.0
82.5°	84.5	129.4	176.5	209.6	219.2
85°	56.7	101.6	149.7	181.8	192.5
87.5°	35.3	79.1	126.2	157.2	166.8
90°	17.7	64.5	116.2	148.3	157.4
92.5°	24.0	97.5	323.5	203.5	190.0
95°	32.8	108.6	558.8	352.5	271.0
97.5°	44.2	109.5	586.1	586.5	460.0
100°	55.2	113.9	540.8	761.8	641.7
102.5°	66.7	119.9	486.8	868.4	801.0
105°	76.5	127.9	445.5	904.6	910.1
107.5°	89.6	137.2	416.7	886.5	958.5
110°	101.8	145.5	401.6	834.4	954.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.2	154.9	391.1	771.8	914.2
115°	124.1	163.8	384.7	716.2	853.5
117.5°	136.7	172.8	378.7	670.4	794.9
120°	148.2	180.6	373.4	637.4	745.1
122.5°	159.6	189.0	367.4	614.6	704.4
125°	168.3	198.1	362.5	597.0	672.8
127.5°	177.5	208.4	356.1	578.8	651.4
130°	183.8	217.3	350.1	559.4	631.3
132.5°	191.2	225.8	345.4	537.6	610.6
135°	197.0	234.2	339.4	512.0	584.2
137.5°	203.9	240.3	335.1	486.0	554.2
140°	211.3	246.8	331.3	460.7	523.2
142.5°	218.3	252.8	329.2	437.9	490.4
145°	225.7	257.2	328.1	415.6	460.5
147.5°	234.3	262.4	326.4	396.4	432.3
150°	242.3	267.2	324.6	382.4	408.1
152.5°	248.6	271.8	321.8	371.5	390.9
155°	255.5	275.8	318.9	361.2	376.7
157.5°	262.3	279.5	316.1	351.5	363.5
160°	268.6	282.6	312.6	341.8	351.5
162.5°	274.3	285.2	309.2	332.4	340.1
165°	278.3	286.9	305.8	323.8	328.6
167.5°	282.9	288.4	302.4	316.4	319.5
170°	285.8	289.5	298.9	309.0	310.9
172.5°	288.6	290.4	295.5	302.4	302.4
175°	290.4	290.9	293.2	297.2	296.1
177.5°	291.5	290.9	291.5	293.5	291.5
180°	290.9	290.9	290.9	290.9	290.9

(END OF REPORT)