

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: P1001795

Luminaire Tested: SA4XXDIP-B795D1205UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001795
REPORT IS A COMBINATION OF REPORTS P996417 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D1205UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

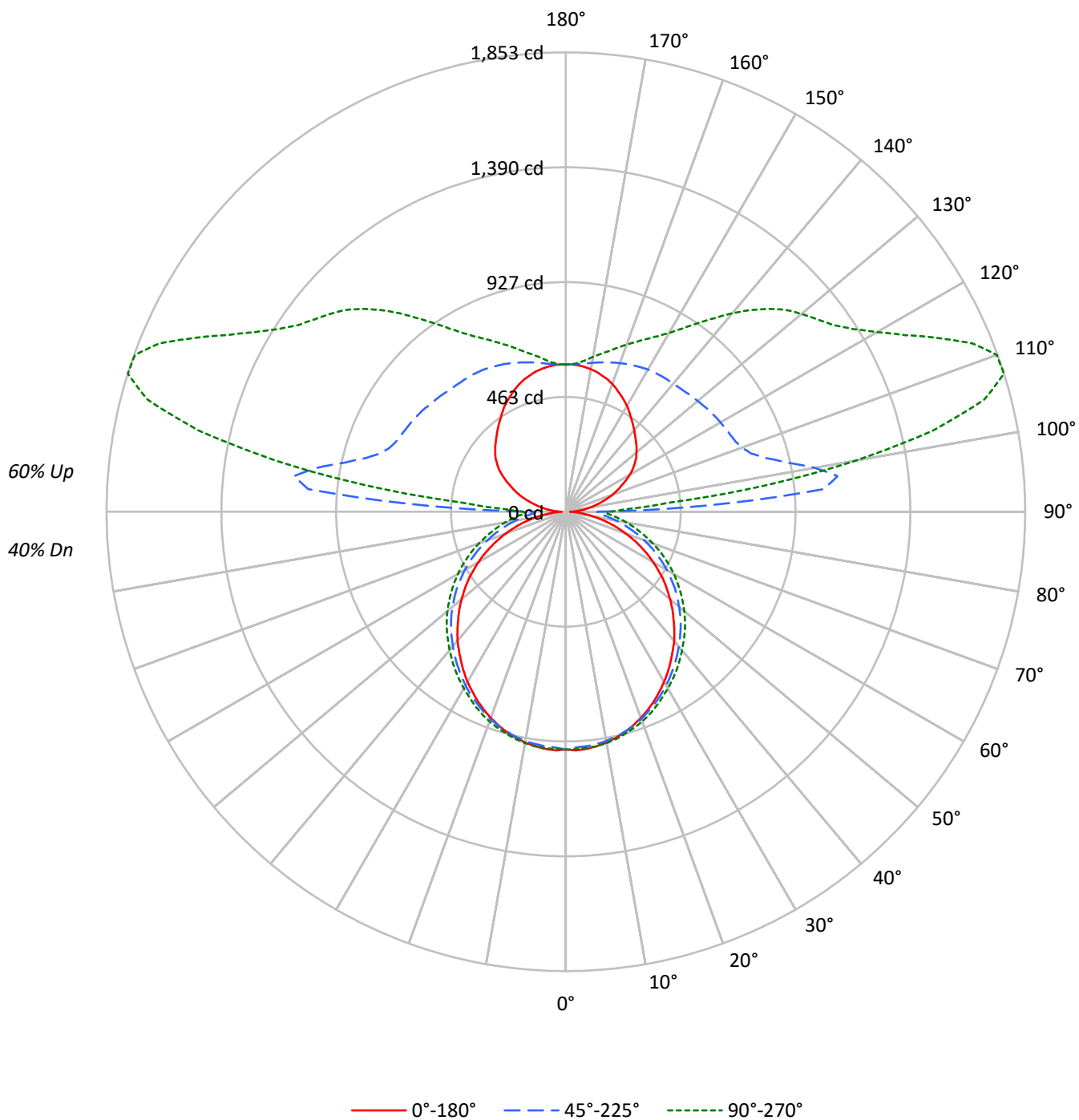
Lumens per Lamp: N/A
Luminaire Lumens: 7604.6 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	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	1.2
10°-20°	260.4	3.4
20°-30°	393.7	5.2
30°-40°	476.3	6.3
40°-50°	503.5	6.6
50°-60°	473.9	6.2
60°-70°	393.2	5.2
70°-80°	276.0	3.6
80°-90°	157.8	2.1
90°-100°	533.6	7.0
100°-110°	965.5	12.7
110°-120°	845.4	11.1
120°-130°	697.4	9.2
130°-140°	571.6	7.5
140°-150°	430.2	5.7
150°-160°	300.8	4.0
160°-170°	176.9	2.3
170°-180°	57.5	0.8
0°-30°	744.9	9.8
0°-40°	1221.2	16.1
0°-60°	2198.6	28.9
0°-90°	3025.7	39.8
90°-120°	2344.5	30.8
90°-150°	4043.7	53.2
90°-180°	4579.0	60.2
0°-180°	7604.6	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°	18	69	127	161	171	14
95°	52	171	1044	593	417	53
105°	146	229	836	1745	1747	156
115°	247	318	733	1385	1657	245
125°	339	401	709	1166	1314	302
135°	400	476	683	1017	1158	309
145°	460	525	670	841	929	288
155°	521	563	651	737	769	240
165°	568	586	624	661	671	160
175°	592	594	598	606	604	56
180°	594	594	594	594	594	

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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°	18.4	69.4	127.3	160.8	170.6
92.5°	32.4	143.5	557.1	281.0	244.7
95°	52.5	170.7	1043.9	593.0	416.7
97.5°	77.0	178.1	1105.1	1077.0	809.1
100°	100.4	191.4	1019.3	1440.2	1187.6
102.5°	123.8	208.0	914.9	1664.7	1518.2
105°	146.2	228.8	836.0	1745.1	1747.3
107.5°	173.0	251.3	782.8	1713.6	1852.8
110°	198.7	272.6	756.3	1613.8	1849.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.3	295.0	740.4	1493.1	1774.6
115°	246.7	317.6	732.8	1385.0	1657.3
117.5°	272.3	339.4	726.2	1298.2	1543.5
120°	297.0	359.6	720.8	1237.4	1448.4
122.5°	320.3	380.3	714.4	1196.4	1372.0
125°	339.0	400.9	708.9	1166.0	1314.2
127.5°	357.7	421.9	701.2	1135.6	1276.2
130°	371.7	441.2	694.6	1101.8	1241.7
132.5°	386.9	458.7	689.1	1062.6	1204.8
135°	399.8	475.6	682.7	1017.0	1157.6
137.5°	413.8	489.2	678.4	969.7	1103.4
140°	429.0	502.6	673.9	923.5	1045.5
142.5°	444.3	514.8	671.8	881.3	984.1
145°	459.5	524.8	669.5	841.4	928.6
147.5°	476.9	535.4	666.0	807.6	876.6
150°	493.3	545.2	662.5	780.2	832.7
152.5°	507.3	554.6	656.6	758.1	797.7
155°	521.3	562.8	650.8	737.1	768.6
157.5°	535.3	570.3	645.0	717.2	741.8
160°	548.2	576.7	638.0	697.4	717.3
162.5°	559.8	582.0	631.0	678.2	693.9
165°	568.0	585.5	624.0	660.7	670.6
167.5°	577.3	588.4	617.0	645.6	652.0
170°	583.1	590.8	610.0	630.4	634.5
172.5°	589.0	592.4	603.0	617.0	617.0
175°	592.5	593.6	598.3	606.5	604.1
177.5°	594.8	593.6	594.8	598.9	594.8
180°	593.6	593.6	593.6	593.6	593.6

(END OF REPORT)