

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: P1001843

Luminaire Tested: SA4XXDIP-B795D365UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001843
REPORT IS A COMBINATION OF REPORTS P996468 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D365UB30-4F0-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

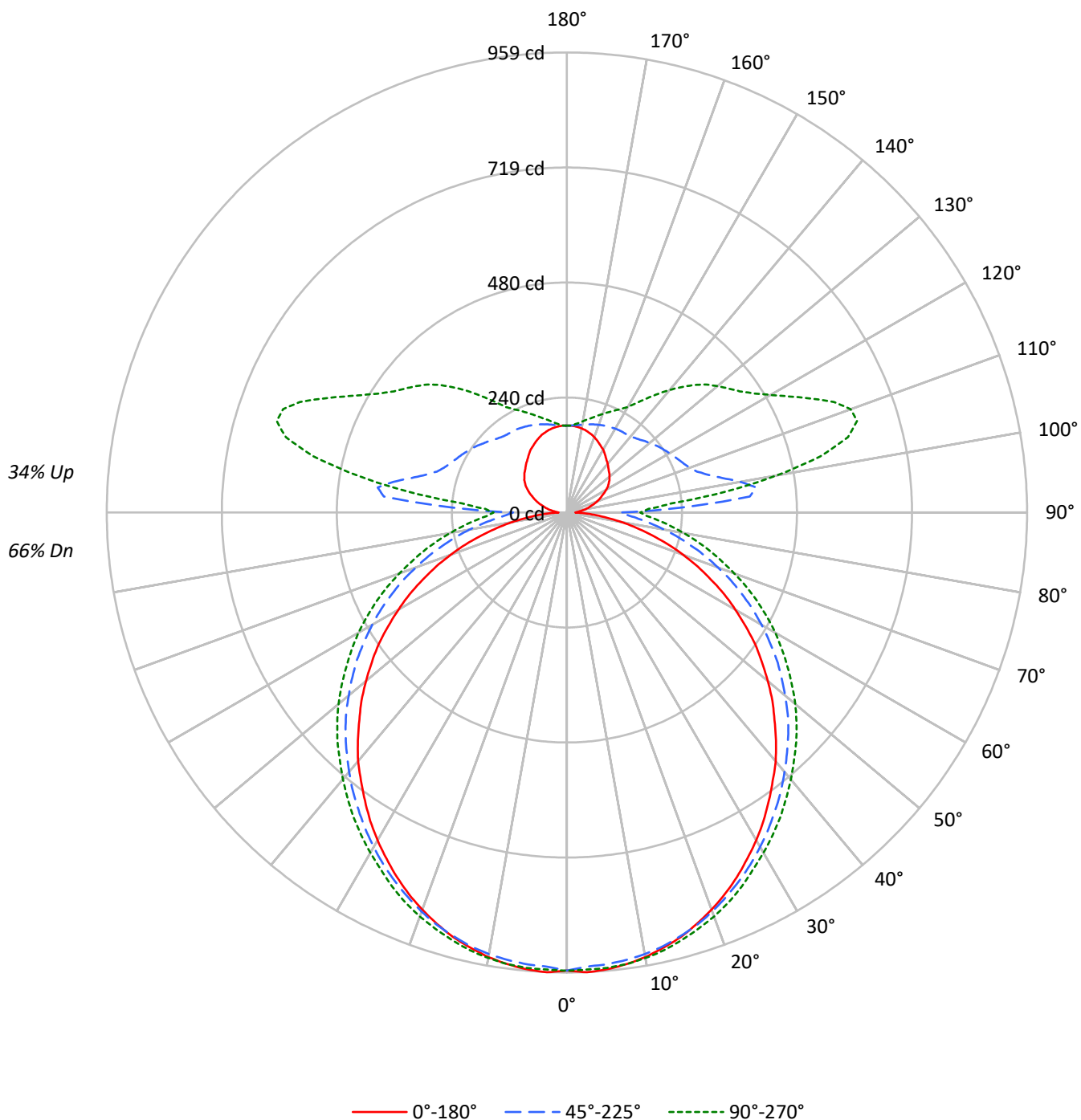
Lumens per Lamp: N/A
Luminaire Lumens: 4577.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66		
1	100	95	90	86	94	89	85	82	79	76	73	69	67	65	60	59	57	53		
2	91	82	75	70	85	77	71	66	68	64	59	60	56	53	52	49	47	43		
3	82	72	64	57	77	68	60	55	60	54	49	53	48	44	46	42	39	36		
4	75	63	55	48	70	60	52	46	53	47	42	47	42	38	41	37	34	30		
5	69	56	48	41	64	53	45	39	47	41	36	42	36	32	37	32	29	26		
6	63	50	42	36	59	48	40	34	42	36	31	38	32	28	33	29	25	23		
7	59	46	37	31	55	43	35	30	38	32	27	34	29	25	30	26	22	20		
8	54	41	33	27	51	39	32	26	35	29	24	31	26	22	28	23	20	18		
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18	16		
10	47	35	27	22	44	33	26	21	30	24	20	27	22	18	24	19	16	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	2.0
10°-20°	259.3	5.7
20°-30°	392.0	8.6
30°-40°	474.3	10.4
40°-50°	501.4	11.0
50°-60°	471.9	10.3
60°-70°	391.5	8.6
70°-80°	274.8	6.0
80°-90°	155.6	3.4
90°-100°	226.7	5.0
100°-110°	341.7	7.5
110°-120°	289.6	6.3
120°-130°	230.5	5.0
130°-140°	182.0	4.0
140°-150°	132.7	2.9
150°-160°	91.7	2.0
160°-170°	53.9	1.2
170°-180°	17.5	0.4
0°-30°	741.8	16.2
0°-40°	1216.0	26.6
0°-60°	2189.2	47.8
0°-90°	3011.1	65.8
90°-120°	858.0	18.7
90°-150°	1403.2	30.7
90°-180°	1566.0	34.2
0°-180°	4577.6	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	63	112	144	153	13
95°	26	86	383	265	218	24
105°	51	91	304	600	606	55
115°	80	108	258	474	562	79
125°	106	124	237	390	440	95
135°	123	146	215	329	376	96
145°	141	160	204	261	291	89
155°	159	172	198	225	234	73
165°	173	178	190	201	204	49
175°	181	181	182	185	184	17
180°	181	181	181	181	181	

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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°	17.5	62.7	112.3	144.0	152.9
92.5°	21.0	80.9	238.9	175.4	170.4
95°	25.6	86.2	382.8	265.4	218.3
97.5°	32.4	84.7	397.8	408.5	333.5
100°	38.8	85.8	367.2	515.6	443.7
102.5°	45.9	87.9	331.6	579.5	540.8
105°	51.2	91.2	303.9	599.6	606.2
107.5°	59.4	95.9	283.9	586.3	634.0
110°	66.6	99.4	272.9	551.4	629.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.3	104.0	264.3	510.1	601.9
115°	79.7	107.9	258.3	473.5	561.7
117.5°	87.5	112.4	252.6	442.6	523.3
120°	94.2	115.6	247.3	419.6	489.8
122.5°	101.3	119.6	241.5	403.4	462.1
125°	106.4	124.4	236.9	390.4	440.0
127.5°	112.0	130.8	230.9	376.7	424.7
130°	115.6	136.0	225.1	362.6	409.8
132.5°	120.2	141.3	220.5	347.0	394.8
135°	123.4	146.5	214.8	328.6	376.0
137.5°	127.6	150.0	210.5	310.5	354.9
140°	132.3	154.0	206.9	292.6	333.6
142.5°	136.2	157.7	204.8	276.9	311.2
145°	140.9	160.0	204.1	261.0	290.6
147.5°	146.2	163.2	203.1	247.0	270.9
150°	151.2	166.2	202.0	237.9	253.9
152.5°	154.7	169.1	200.2	231.2	243.2
155°	159.0	171.6	198.4	224.8	234.3
157.5°	163.2	173.9	196.6	218.7	226.2
160°	167.1	175.9	194.5	212.6	218.7
162.5°	170.7	177.4	192.4	206.8	211.6
165°	173.2	178.5	190.2	201.4	204.5
167.5°	176.0	179.4	188.1	196.9	198.8
170°	177.8	180.1	186.0	192.2	193.4
172.5°	179.6	180.6	183.8	188.2	188.1
175°	180.6	181.0	182.4	184.9	184.2
177.5°	181.4	181.0	181.4	182.6	181.4
180°	181.0	181.0	181.0	181.0	181.0

(END OF REPORT)