

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: P1001580

Luminaire Tested: SA4XXDIP-B575D590UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001580
REPORT IS A COMBINATION OF REPORTS P996202 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D590UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

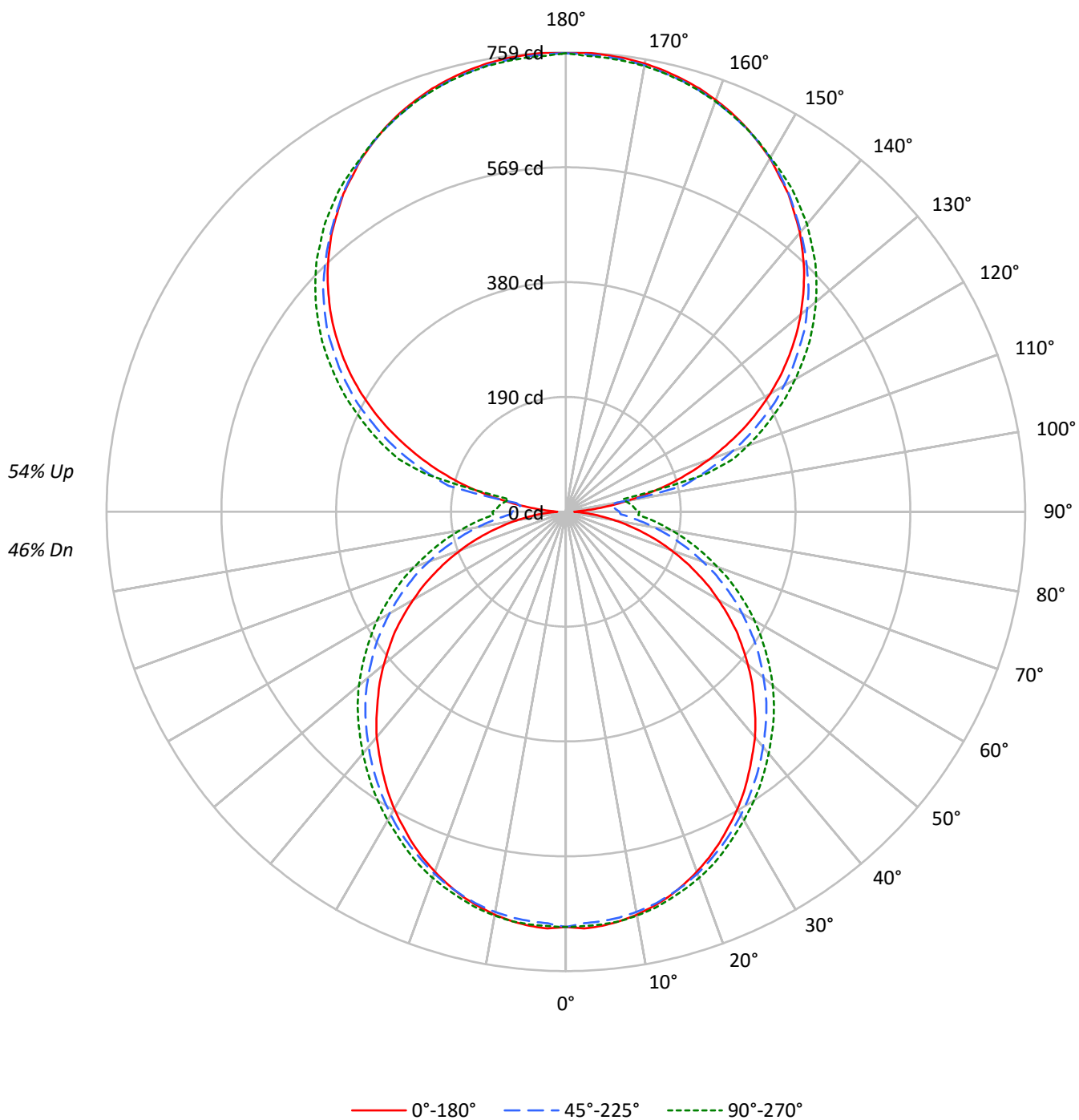
Lumens per Lamp: N/A
Luminaire Lumens: 4685.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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
RCR																	
0	106	106	106	106	98	98	98	98	81	81	81		66	66	66		53
1	96	91	87	83	88	84	80	77	70	67	65		57	55	53		45
2	87	79	73	67	79	73	67	62	61	56	53		49	46	44		39
3	79	69	62	55	72	64	57	52	53	48	44		43	40	37		34
4	72	61	53	47	66	56	49	43	47	41	37		38	34	31		30
5	66	54	46	40	60	50	43	37	42	36	32		34	30	27		27
6	61	48	40	34	55	45	37	32	38	32	28		31	27	23		25
7	56	44	36	30	51	40	33	28	34	28	24		28	24	20		22
8	52	40	32	26	48	37	30	25	31	25	21		26	21	18		21
9	48	36	28	23	44	33	27	22	28	23	19		23	19	16		19
10	45	33	26	21	41	31	24	20	26	21	17		22	18	15		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5594	5594	5594
5°	5610	5448	5458
10°	5574	5341	5326
15°	5521	5220	5177
20°	5444	5090	5032
25°	5357	4946	4875
30°	5263	4804	4716
35°	5156	4658	4574
40°	5070	4518	4427
45°	4944	4387	4297
50°	4836	4238	4161
55°	4725	4094	4002
60°	4552	3915	3854
65°	4362	3723	3675
70°	4130	3502	3469
75°	3807	3256	3272
80°	3442	3008	3066
85°	2962	2757	2899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.4
10°-20°	186.2	4.0
20°-30°	281.6	6.0
30°-40°	340.7	7.3
40°-50°	360.2	7.7
50°-60°	339.0	7.2
60°-70°	281.3	6.0
70°-80°	197.4	4.2
80°-90°	112.9	2.4
90°-100°	91.4	2.0
100°-110°	214.7	4.6
110°-120°	349.2	7.5
120°-130°	420.0	9.0
130°-140°	437.5	9.3
140°-150°	403.2	8.6
150°-160°	323.9	6.9
160°-170°	208.9	4.5
170°-180°	72.0	1.5
0°-30°	532.8	11.4
0°-40°	873.5	18.6
0°-60°	1572.7	33.6
0°-90°	2164.2	46.2
90°-120°	655.3	14.0
90°-150°	1916.0	40.9
90°-180°	2521.0	53.8
0°-180°	4685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	687	684	679	685	684	65
15°	658	659	657	664	663	186
25°	602	607	609	618	618	277
35°	527	536	544	555	557	330
45°	439	454	469	482	486	340
55°	344	360	383	399	403	307
65°	238	263	289	308	314	236
75°	132	161	193	214	221	140
85°	41	73	108	131	138	42
90°	14	51	89	114	122	10
95°	41	47	79	104	111	46
105°	178	196	228	252	238	186
115°	323	332	356	374	379	318
125°	451	452	470	487	492	403
135°	557	556	564	577	583	429
145°	641	642	642	647	651	401
155°	702	703	701	703	702	324
165°	741	738	738	742	737	209
175°	758	754	755	760	753	72
180°	758	758	758	758	758	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.0	686.0	686.0	686.0	686.0
2.5°	689.1	686.8	680.7	686.0	685.3
5°	686.8	684.5	679.1	685.3	684.5
7.5°	682.2	680.7	676.1	683.0	682.2
10°	676.1	675.3	671.4	678.4	677.6
12.5°	667.6	667.6	665.3	671.4	671.4
15°	658.4	659.2	656.8	663.8	663.0
17.5°	646.1	648.4	647.6	654.5	653.8
20°	633.0	635.3	636.1	643.8	643.8
22.5°	618.4	621.5	623.0	630.7	632.3
25°	602.3	606.9	609.2	617.7	618.4
27.5°	584.6	591.5	594.6	602.3	603.1
30°	567.0	573.1	578.5	586.9	588.5
32.5°	547.8	555.4	561.6	571.6	573.1
35°	527.0	536.2	543.9	554.7	557.0
37.5°	506.3	517.0	526.2	537.0	539.3
40°	486.3	496.3	507.0	518.6	521.6
42.5°	463.3	474.8	487.8	500.9	503.2
45°	439.4	454.0	468.6	481.7	485.5
47.5°	417.2	431.8	448.7	461.7	466.3
50°	392.6	409.5	426.4	441.7	446.4
52.5°	368.0	384.9	404.9	420.2	424.8
55°	344.2	360.3	383.4	398.7	403.3
57.5°	317.3	337.3	359.5	378.0	381.8
60°	291.2	311.1	336.5	354.2	360.3
62.5°	265.8	288.1	313.4	331.1	337.3
65°	238.2	262.7	288.9	308.1	314.2
67.5°	212.0	238.2	265.8	285.0	291.2
70°	185.1	211.3	240.5	261.2	266.6
72.5°	159.0	185.9	217.4	237.4	243.5
75°	132.1	160.6	192.8	214.3	221.3
77.5°	106.8	136.7	170.6	192.1	199.7
80°	83.7	114.5	148.3	171.3	177.5
82.5°	60.7	93.0	126.8	150.6	157.5
85°	40.7	73.0	107.6	130.6	138.3
87.5°	25.4	56.9	90.7	112.9	119.8
90°	14.0	50.9	88.6	114.2	121.5
92.5°	20.0	45.8	83.3	108.3	114.4
95°	41.2	47.2	79.3	103.5	110.9
97.5°	68.7	103.5	75.5	98.3	105.8
100°	101.4	131.5	83.3	94.4	100.4
102.5°	138.8	162.5	198.4	90.9	97.1
105°	177.5	196.3	227.5	251.8	237.6
107.5°	214.3	229.1	260.0	282.0	289.6
110°	250.9	263.4	293.7	312.5	320.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.5	299.1	325.5	341.9	350.3
115°	323.1	331.7	355.7	373.7	379.1
117.5°	356.5	363.4	388.2	403.7	409.8
120°	389.7	394.3	416.0	432.5	437.5
122.5°	421.4	422.6	444.5	460.4	464.6
125°	450.8	452.2	470.3	486.6	491.8
127.5°	479.7	479.4	497.7	510.9	515.7
130°	506.6	506.4	520.4	534.9	539.5
132.5°	532.1	532.5	544.0	557.6	561.6
135°	556.8	556.3	563.9	577.4	583.1
137.5°	579.5	578.8	584.6	597.4	600.6
140°	601.6	602.0	603.9	615.6	620.0
142.5°	620.7	623.0	622.8	632.4	635.4
145°	641.1	642.0	642.0	647.2	651.4
147.5°	657.0	659.6	659.0	660.4	664.0
150°	674.6	676.0	675.5	675.5	676.0
152.5°	688.5	690.2	689.1	690.2	689.6
155°	702.1	702.7	701.0	703.2	701.5
157.5°	714.0	714.0	711.7	714.6	711.7
160°	724.2	722.5	721.9	725.3	721.9
162.5°	733.3	731.0	730.4	733.8	729.9
165°	740.6	737.8	737.8	742.3	737.2
167.5°	746.9	744.0	743.5	748.6	742.9
170°	752.0	748.6	749.1	753.7	748.0
172.5°	755.4	752.0	752.5	757.1	750.8
175°	757.6	754.2	754.8	759.9	753.1
177.5°	759.3	755.4	756.5	761.0	754.2
180°	757.6	757.6	757.6	757.6	757.6

(END OF REPORT)