

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: P1025582

Luminaire Tested: S124DIP-B575D365UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025582
REPORT IS A COMBINATION OF REPORTS P996167 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

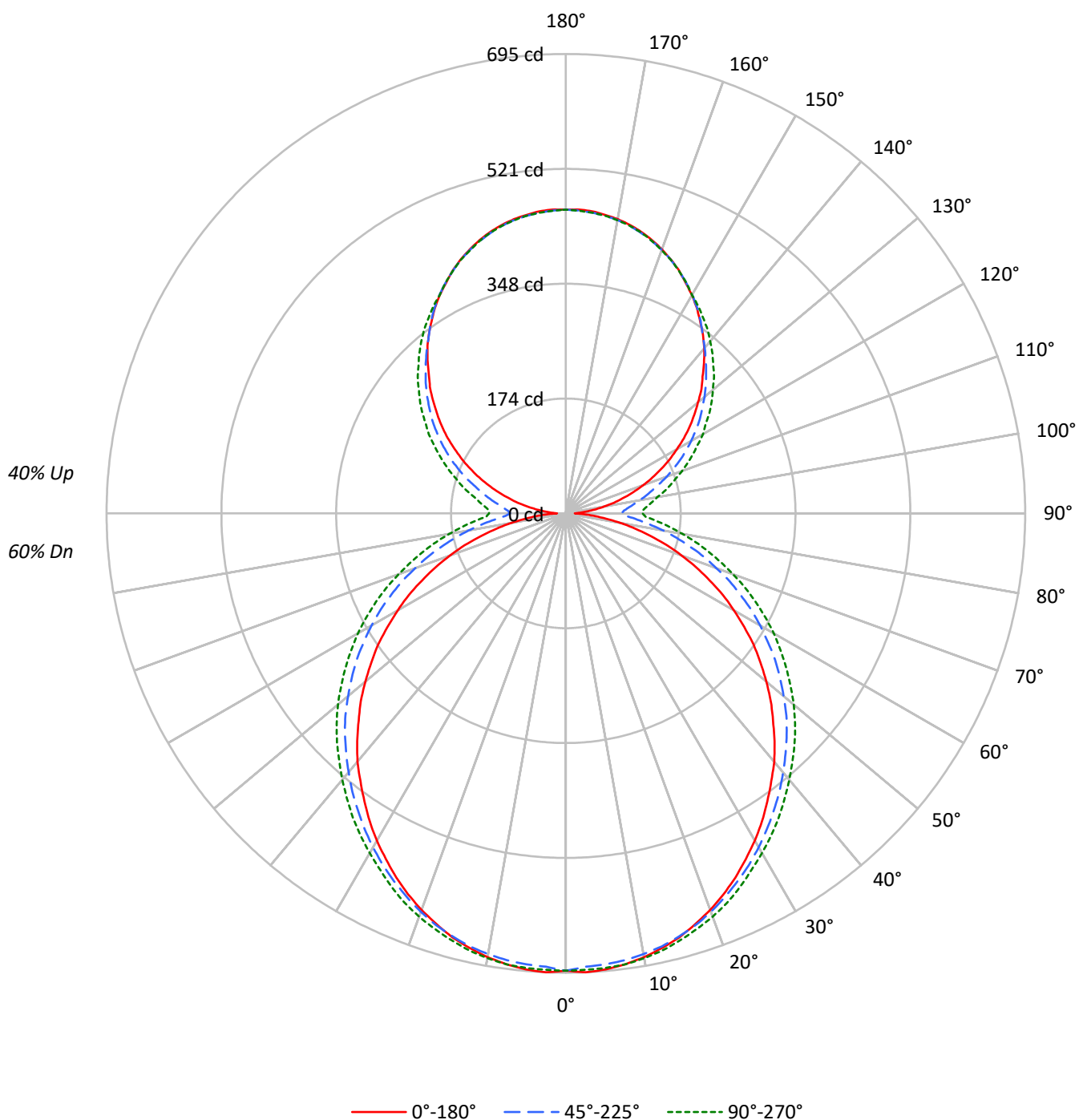
Lumens per Lamp: N/A
Luminaire Lumens: 3635.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	99	94	89	86	92	88	84	80	76	73	71	66	63	61	56	54	53
2	89	81	75	69	83	76	70	65	66	61	57	57	53	50	48	46	43
3	81	71	63	57	75	66	59	54	58	52	48	50	46	42	42	39	36
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31
5	68	56	47	41	63	52	44	39	46	39	35	40	35	31	34	30	27
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	23
7	58	45	37	31	54	42	35	29	37	31	26	32	27	24	28	24	21
8	54	41	33	27	50	38	31	26	34	28	23	30	25	21	26	22	19
9	50	37	29	24	47	35	28	23	31	25	21	27	22	19	24	20	17
10	47	34	27	22	44	32	25	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.8
10°-20°	187.8	5.2
20°-30°	284.0	7.8
30°-40°	343.6	9.5
40°-50°	363.2	10.0
50°-60°	341.9	9.4
60°-70°	283.7	7.8
70°-80°	199.1	5.5
80°-90°	113.2	3.1
90°-100°	96.8	2.7
100°-110°	139.2	3.8
110°-120°	185.6	5.1
120°-130°	219.7	6.0
130°-140°	233.8	6.4
140°-150°	223.5	6.1
150°-160°	186.6	5.1
160°-170°	124.2	3.4
170°-180°	43.5	1.2
0°-30°	537.4	14.8
0°-40°	881.0	24.2
0°-60°	1586.1	43.6
0°-90°	2182.1	60.0
90°-120°	421.6	11.6
90°-150°	1098.6	30.2
90°-180°	1453.0	40.0
0°-180°	3635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	14	48	84	109	116	10
95°	31	60	94	116	123	31
105°	90	106	136	156	163	96
115°	160	167	191	207	212	158
125°	229	228	247	261	265	204
135°	293	295	300	312	315	227
145°	354	355	355	360	362	222
155°	405	405	405	406	405	187
165°	441	440	439	441	440	124
175°	459	457	457	459	457	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	13.5	48.4	84.5	109.2	116.1
92.5°	20.8	52.6	87.7	110.5	117.1
95°	31.4	60.1	94.4	116.4	123.4
97.5°	43.4	68.8	103.3	124.9	131.9
100°	58.3	79.9	113.3	134.9	140.3
102.5°	74.6	92.1	124.3	145.6	152.1
105°	89.8	105.7	135.7	156.2	163.4
107.5°	107.2	120.7	148.2	169.0	174.1
110°	124.2	135.7	162.5	179.6	186.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	151.2	176.1	193.1	199.3
115°	159.6	166.6	190.6	207.4	212.4
117.5°	177.0	181.7	204.5	219.7	224.9
120°	193.7	197.4	218.8	232.6	239.5
122.5°	211.8	212.2	232.7	247.1	250.8
125°	228.8	228.0	247.0	261.0	265.0
127.5°	244.8	245.0	259.8	273.1	278.2
130°	261.0	261.3	273.7	287.0	290.2
132.5°	278.4	278.4	287.3	299.8	304.1
135°	292.6	294.7	300.2	311.9	315.4
137.5°	309.3	309.6	313.4	324.0	328.2
140°	326.0	326.0	326.7	336.4	340.0
142.5°	340.6	341.3	340.1	348.6	351.7
145°	354.4	355.0	355.4	359.6	361.7
147.5°	368.6	369.6	369.3	369.7	372.4
150°	381.4	382.1	382.1	382.1	381.7
152.5°	392.7	393.4	393.8	394.8	393.8
155°	405.2	405.2	404.8	406.2	404.8
157.5°	415.8	415.1	415.1	416.2	415.1
160°	425.1	424.7	424.3	425.4	423.6
162.5°	433.6	432.5	432.2	434.3	432.5
165°	441.0	440.0	439.3	441.4	440.0
167.5°	447.1	445.7	445.7	447.8	445.7
170°	452.1	450.3	450.6	452.8	450.3
172.5°	455.6	454.2	454.2	456.7	454.2
175°	458.8	457.0	456.7	459.2	456.7
177.5°	460.2	458.5	458.5	460.9	458.1
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)