

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: P1025600

Luminaire Tested: S124DIP-B575D365UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025600
REPORT IS A COMBINATION OF REPORTS P996185 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

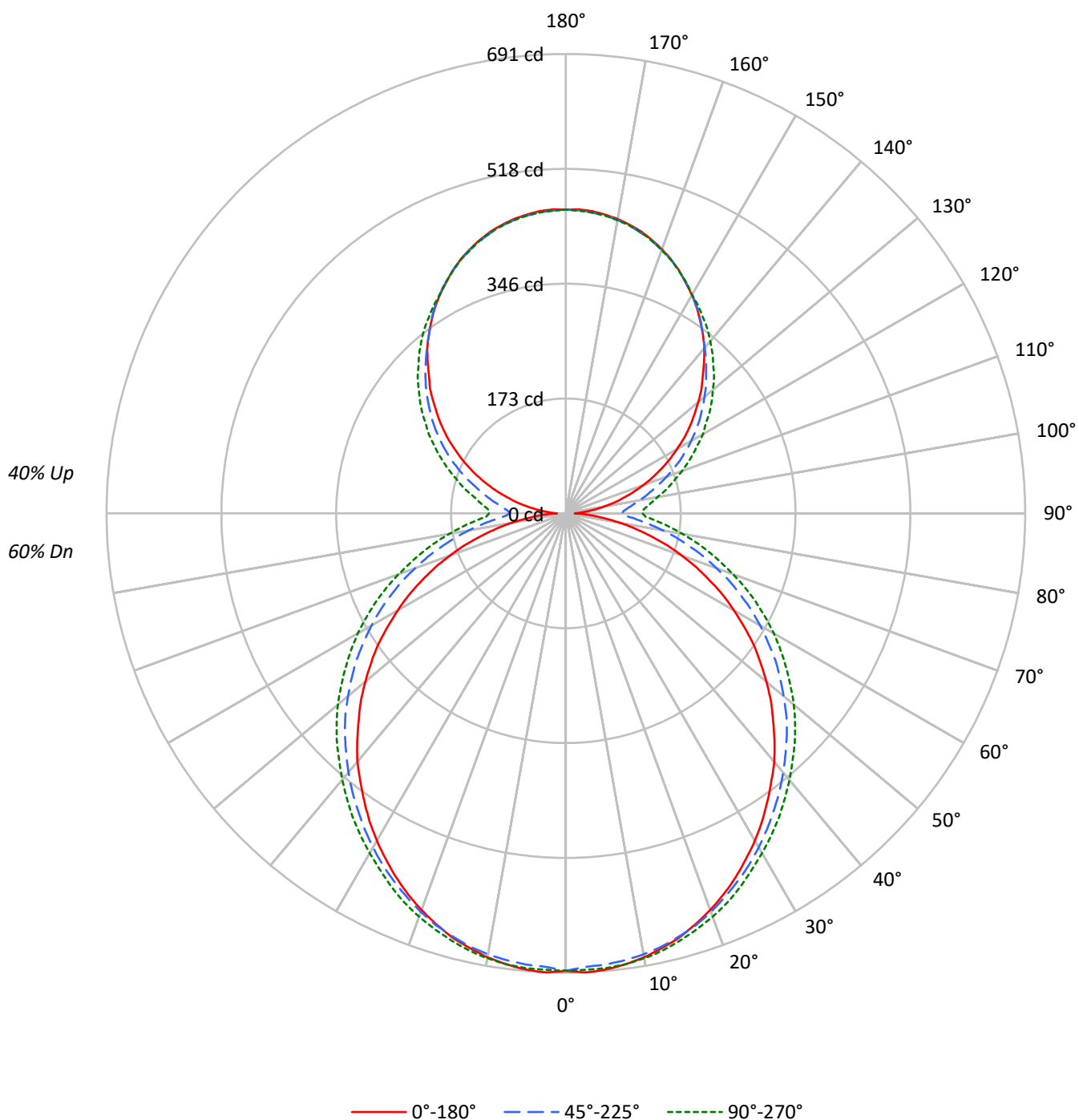
Lumens per Lamp: N/A
Luminaire Lumens: 3615.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	5611	5611	5611
5°	5627	5465	5475
10°	5590	5358	5342
15°	5538	5236	5192
20°	5460	5105	5047
25°	5373	4961	4890
30°	5279	4818	4730
35°	5172	4672	4587
40°	5086	4532	4440
45°	4959	4400	4310
50°	4850	4251	4173
55°	4738	4106	4014
60°	4565	3927	3865
65°	4375	3733	3686
70°	4143	3512	3479
75°	3818	3266	3281
80°	3455	3016	3075
85°	2969	2765	2907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.8
10°-20°	186.8	5.2
20°-30°	282.4	7.8
30°-40°	341.7	9.5
40°-50°	361.2	10.0
50°-60°	340.0	9.4
60°-70°	282.1	7.8
70°-80°	198.0	5.5
80°-90°	112.6	3.1
90°-100°	96.2	2.7
100°-110°	138.4	3.8
110°-120°	184.6	5.1
120°-130°	218.5	6.0
130°-140°	232.6	6.4
140°-150°	222.3	6.1
150°-160°	185.6	5.1
160°-170°	123.5	3.4
170°-180°	43.2	1.2
0°-30°	534.4	14.8
0°-40°	876.2	24.2
0°-60°	1577.4	43.6
0°-90°	2170.1	60.0
90°-120°	419.3	11.6
90°-150°	1092.6	30.2
90°-180°	1445.0	40.0
0°-180°	3615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	689	687	681	687	687	65
15°	660	661	659	666	665	186
25°	604	609	611	620	620	278
35°	529	538	546	556	559	331
45°	441	455	470	483	487	341
55°	345	361	384	400	404	308
65°	239	264	290	309	315	237
75°	132	161	193	215	222	141
85°	41	73	108	131	139	43
90°	13	48	84	108	115	10
95°	31	60	94	116	123	31
105°	89	105	135	155	162	95
115°	159	166	190	206	211	157
125°	228	227	246	260	264	203
135°	291	293	298	310	314	225
145°	352	353	353	358	360	221
155°	403	403	403	404	403	185
165°	439	438	437	439	438	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.1	688.1	688.1	688.1	688.1
2.5°	691.2	688.9	682.7	688.1	687.3
5°	688.9	686.6	681.2	687.3	686.6
7.5°	684.2	682.7	678.1	685.0	684.2
10°	678.1	677.3	673.5	680.4	679.6
12.5°	669.6	669.6	667.3	673.5	673.5
15°	660.4	661.1	658.8	665.7	665.0
17.5°	648.0	650.3	649.6	656.5	655.7
20°	634.9	637.2	638.0	645.7	645.7
22.5°	620.3	623.4	624.9	632.6	634.2
25°	604.1	608.7	611.0	619.5	620.3
27.5°	586.4	593.3	596.4	604.1	604.9
30°	568.7	574.8	580.2	588.7	590.2
32.5°	549.4	557.1	563.3	573.3	574.8
35°	528.6	537.8	545.5	556.3	558.6
37.5°	507.8	518.6	527.8	538.6	540.9
40°	487.8	497.8	508.6	520.1	523.2
42.5°	464.6	476.2	489.3	502.4	504.7
45°	440.8	455.4	470.0	483.1	487.0
47.5°	418.4	433.0	450.0	463.1	467.7
50°	393.7	410.7	427.7	443.1	447.7
52.5°	369.1	386.0	406.1	421.5	426.1
55°	345.2	361.4	384.5	399.9	404.5
57.5°	318.2	338.3	360.6	379.1	383.0
60°	292.0	312.1	337.5	355.2	361.4
62.5°	266.6	289.0	314.4	332.1	338.3
65°	238.9	263.5	289.7	309.0	315.2
67.5°	212.7	238.9	266.6	285.9	292.0
70°	185.7	211.9	241.2	262.0	267.4
72.5°	159.5	186.5	218.1	238.1	244.3
75°	132.5	161.0	193.4	215.0	221.9
77.5°	107.1	137.2	171.1	192.6	200.3
80°	84.0	114.8	148.7	171.8	178.0
82.5°	60.9	93.2	127.1	151.0	158.0
85°	40.8	73.2	107.9	131.0	138.7
87.5°	25.4	57.0	90.9	113.3	120.2
90°	13.4	48.1	84.1	108.5	115.4
92.5°	20.8	52.3	87.3	109.8	116.4
95°	31.2	59.8	93.9	115.7	122.7
97.5°	43.1	68.4	102.8	124.2	131.2
100°	58.0	79.4	112.7	134.2	139.6
102.5°	74.2	91.5	123.6	144.7	151.2
105°	89.3	105.0	135.0	155.3	162.5
107.5°	106.6	120.0	147.4	168.1	173.1
110°	123.5	135.1	161.6	178.6	185.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.1	150.3	175.1	192.0	198.2
115°	158.7	165.7	189.6	206.2	211.3
117.5°	176.0	180.6	203.5	218.5	223.6
120°	192.6	196.4	217.6	231.2	238.1
122.5°	210.7	211.0	231.5	245.8	249.4
125°	227.5	226.7	245.7	259.6	263.5
127.5°	243.4	243.7	258.4	271.6	276.6
130°	259.6	259.9	272.3	285.4	288.6
132.5°	276.9	276.8	285.8	298.2	302.4
135°	291.0	293.1	298.5	310.2	313.7
137.5°	307.6	307.9	311.8	322.2	326.4
140°	324.2	324.2	324.9	334.6	338.1
142.5°	338.7	339.4	338.2	346.7	349.8
145°	352.5	353.1	353.4	357.7	359.7
147.5°	366.6	367.6	367.2	367.7	370.4
150°	379.3	380.0	380.0	380.0	379.6
152.5°	390.6	391.3	391.6	392.7	391.6
155°	402.9	402.9	402.6	404.0	402.6
157.5°	413.5	412.8	412.8	413.9	412.8
160°	422.7	422.4	422.0	423.1	421.3
162.5°	431.2	430.1	429.8	431.9	430.1
165°	438.6	437.6	436.9	439.0	437.6
167.5°	444.6	443.2	443.2	445.3	443.2
170°	449.6	447.8	448.2	450.3	447.8
172.5°	453.1	451.7	451.7	454.2	451.7
175°	456.3	454.5	454.2	456.7	454.2
177.5°	457.7	455.9	455.9	458.4	455.6
180°	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)