

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: P1025599

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025599
REPORT IS A COMBINATION OF REPORTS P996184 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-D
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

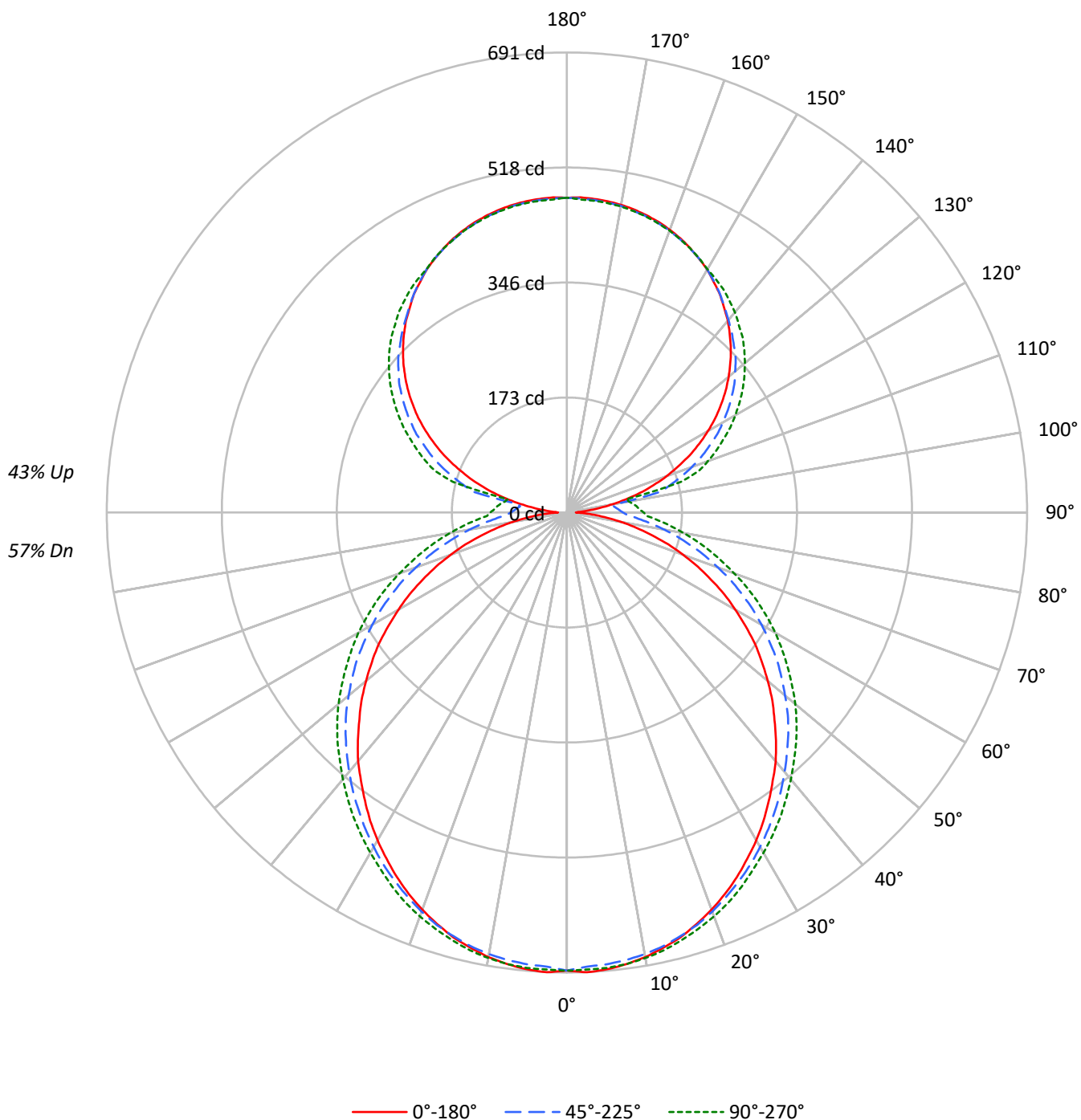
Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63
1	98	93	89	85	91	87	83	80	75	72	69	64	62	60	53	52	51
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	42
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	41	38	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	35	36	33	30
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	35	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	27	23	27	23	20
8	53	41	32	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	20	26	22	18	23	19	16
10	46	34	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

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	1.7
10°-20°	186.8	4.9
20°-30°	282.4	7.4
30°-40°	341.7	9.0
40°-50°	361.2	9.5
50°-60°	340.0	8.9
60°-70°	282.1	7.4
70°-80°	198.0	5.2
80°-90°	112.6	3.0
90°-100°	82.1	2.2
100°-110°	152.6	4.0
110°-120°	230.4	6.0
120°-130°	269.2	7.1
130°-140°	276.1	7.2
140°-150°	252.2	6.6
150°-160°	202.1	5.3
160°-170°	130.3	3.4
170°-180°	44.9	1.2
0°-30°	534.4	14.0
0°-40°	876.2	23.0
0°-60°	1577.4	41.4
0°-90°	2170.1	57.0
90°-120°	465.1	12.2
90°-150°	1262.5	33.1
90°-180°	1640.0	43.0
0°-180°	3810.0	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	9
95°	29	43	75	98	105	32
105°	113	131	161	184	177	119
115°	203	211	236	253	259	200
125°	282	283	302	317	322	252
135°	348	348	354	368	373	268
145°	400	401	401	406	409	250
155°	438	438	437	439	438	202
165°	462	460	460	463	460	131
175°	473	471	471	474	470	45
180°	473	473	473	473	473	

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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	48.2	84.1	108.5	115.4
92.5°	16.9	43.1	79.1	102.7	108.9
95°	29.4	42.8	74.8	97.7	105.1
97.5°	46.3	76.5	71.0	92.7	100.1
100°	66.5	92.9	74.2	88.9	94.7
102.5°	89.8	111.0	144.5	85.0	91.2
105°	113.3	130.9	161.2	183.6	177.1
107.5°	136.3	150.5	180.0	201.0	207.8
110°	159.0	170.8	199.9	218.3	225.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.8	192.1	218.3	234.9	242.5
115°	203.3	211.4	235.6	253.4	258.8
117.5°	224.2	230.2	254.5	270.2	276.4
120°	244.7	248.4	270.4	286.5	292.0
122.5°	264.5	265.2	286.7	302.5	307.2
125°	282.5	283.1	301.7	317.3	322.3
127.5°	300.5	300.1	317.2	330.8	335.8
130°	317.0	316.6	330.0	344.2	348.9
132.5°	332.9	332.9	343.6	357.0	361.3
135°	348.1	347.7	354.5	367.6	372.9
137.5°	362.2	361.5	366.4	378.6	382.1
140°	376.0	376.0	377.4	388.6	392.7
142.5°	387.7	389.1	388.6	397.8	400.9
145°	400.4	400.7	400.7	405.6	409.4
147.5°	410.3	411.6	411.3	412.4	415.9
150°	421.3	421.9	421.5	421.5	421.9
152.5°	429.7	430.7	430.0	430.7	430.4
155°	438.1	438.5	437.4	438.9	437.8
157.5°	445.6	445.6	444.2	445.9	444.2
160°	451.9	450.9	450.5	452.6	450.5
162.5°	457.6	456.2	455.8	458.0	455.5
165°	462.2	460.4	460.4	463.3	460.1
167.5°	466.1	464.3	464.0	467.1	463.6
170°	469.3	467.1	467.5	470.3	466.8
172.5°	471.4	469.3	469.6	472.5	468.6
175°	472.8	470.7	471.0	474.2	470.0
177.5°	473.9	471.4	472.1	474.9	470.7
180°	472.8	472.8	472.8	472.8	472.8

(END OF REPORT)