

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: P1025573

Luminaire Tested: S124DIP-B575D365UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025573
REPORT IS A COMBINATION OF REPORTS P996143 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB27-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

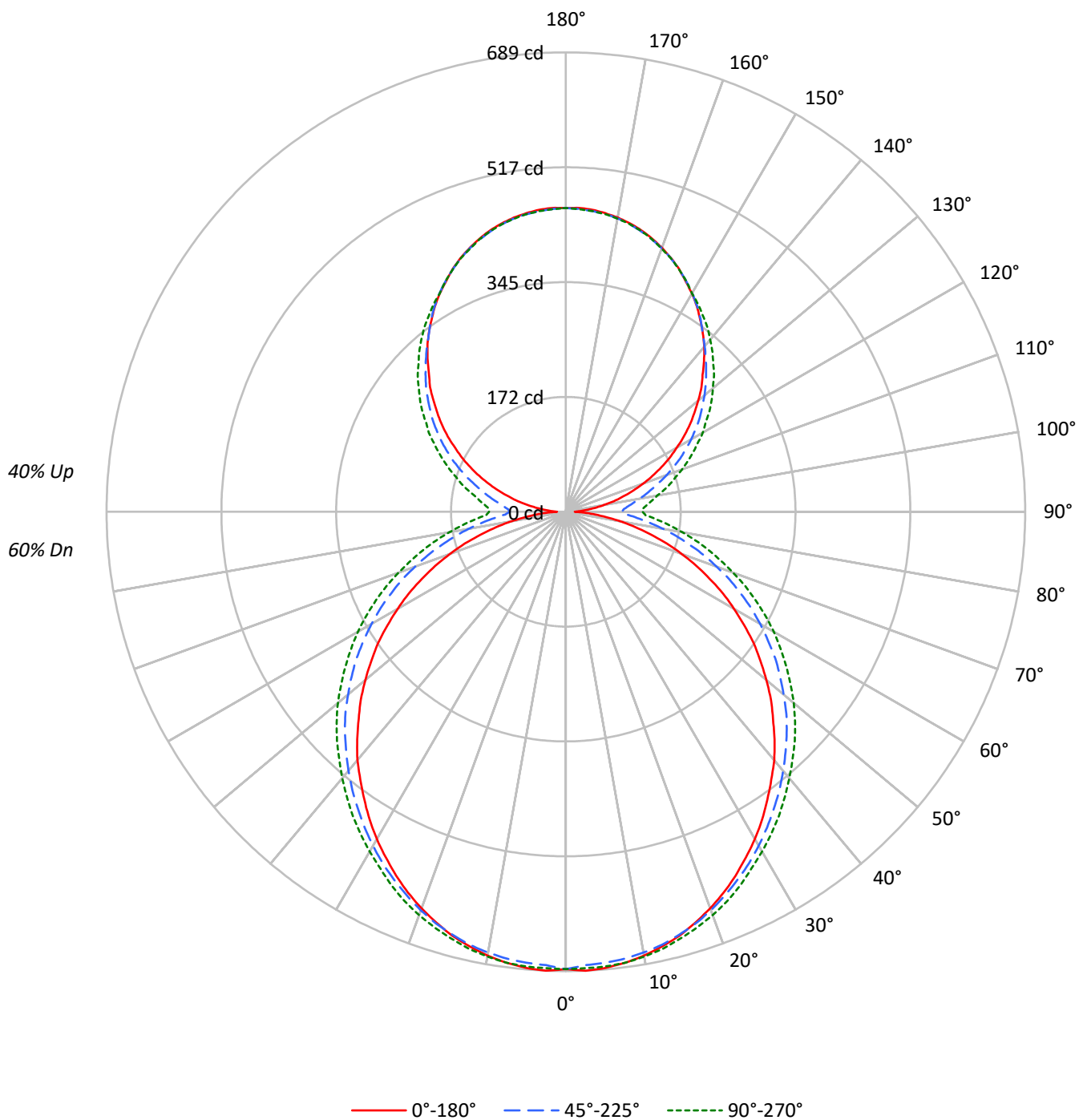
Lumens per Lamp: N/A
Luminaire Lumens: 3604.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	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	1.8
10°-20°	186.2	5.2
20°-30°	281.6	7.8
30°-40°	340.7	9.5
40°-50°	360.2	10.0
50°-60°	339.0	9.4
60°-70°	281.3	7.8
70°-80°	197.4	5.5
80°-90°	112.3	3.1
90°-100°	95.9	2.7
100°-110°	138.0	3.8
110°-120°	184.0	5.1
120°-130°	217.8	6.0
130°-140°	231.8	6.4
140°-150°	221.6	6.1
150°-160°	185.0	5.1
160°-170°	123.1	3.4
170°-180°	43.1	1.2
0°-30°	532.8	14.8
0°-40°	873.5	24.2
0°-60°	1572.7	43.6
0°-90°	2163.6	60.0
90°-120°	418.0	11.6
90°-150°	1089.2	30.2
90°-180°	1440.0	40.0
0°-180°	3604.0	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°	13	48	84	108	115	10
95°	31	60	94	115	122	31
105°	89	105	135	155	162	95
115°	158	165	189	206	211	156
125°	227	226	245	259	263	202
135°	290	292	298	309	313	225
145°	351	352	352	357	359	220
155°	402	402	401	403	401	185
165°	437	436	436	438	436	123
175°	455	453	453	455	453	43
180°	456	456	456	456	456	

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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°	13.4	47.9	83.9	108.2	115.1
92.5°	20.7	52.1	86.9	109.6	116.0
95°	31.1	59.6	93.6	115.4	122.3
97.5°	43.0	68.1	102.5	123.9	130.8
100°	57.8	79.1	112.3	133.7	139.1
102.5°	74.0	91.3	123.2	144.3	150.8
105°	89.0	104.7	134.6	154.8	162.1
107.5°	106.3	119.7	147.0	167.6	172.5
110°	123.1	134.6	161.1	178.1	185.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.7	149.9	174.5	191.5	197.6
115°	158.2	165.1	189.0	205.6	210.6
117.5°	175.5	180.1	202.8	217.9	222.9
120°	191.9	195.7	216.9	230.5	237.3
122.5°	209.9	210.3	230.7	245.0	248.6
125°	226.8	226.0	244.9	258.8	262.7
127.5°	242.7	242.9	257.6	270.7	275.8
130°	258.8	259.1	271.4	284.6	287.7
132.5°	276.1	276.0	284.9	297.2	301.5
135°	290.1	292.2	297.6	309.2	312.7
137.5°	306.6	307.0	310.7	321.2	325.4
140°	323.2	323.2	323.9	333.5	337.1
142.5°	337.6	338.3	337.2	345.7	348.7
145°	351.4	352.0	352.3	356.6	358.6
147.5°	365.5	366.4	366.1	366.5	369.2
150°	378.1	378.8	378.8	378.8	378.4
152.5°	389.3	390.0	390.4	391.4	390.4
155°	401.7	401.7	401.3	402.7	401.3
157.5°	412.2	411.5	411.5	412.6	411.5
160°	421.4	421.0	420.7	421.7	420.0
162.5°	429.8	428.8	428.4	430.5	428.8
165°	437.2	436.2	435.5	437.6	436.2
167.5°	443.2	441.8	441.8	443.9	441.8
170°	448.2	446.4	446.8	448.9	446.4
172.5°	451.7	450.3	450.3	452.7	450.3
175°	454.9	453.1	452.7	455.2	452.7
177.5°	456.3	454.5	454.5	457.0	454.2
180°	455.6	455.6	455.6	455.6	455.6

(END OF REPORT)