

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: P1025528

Luminaire Tested: S124DIP-B575D1205UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025528
REPORT IS A COMBINATION OF REPORTS P996083 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB27-4F0-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

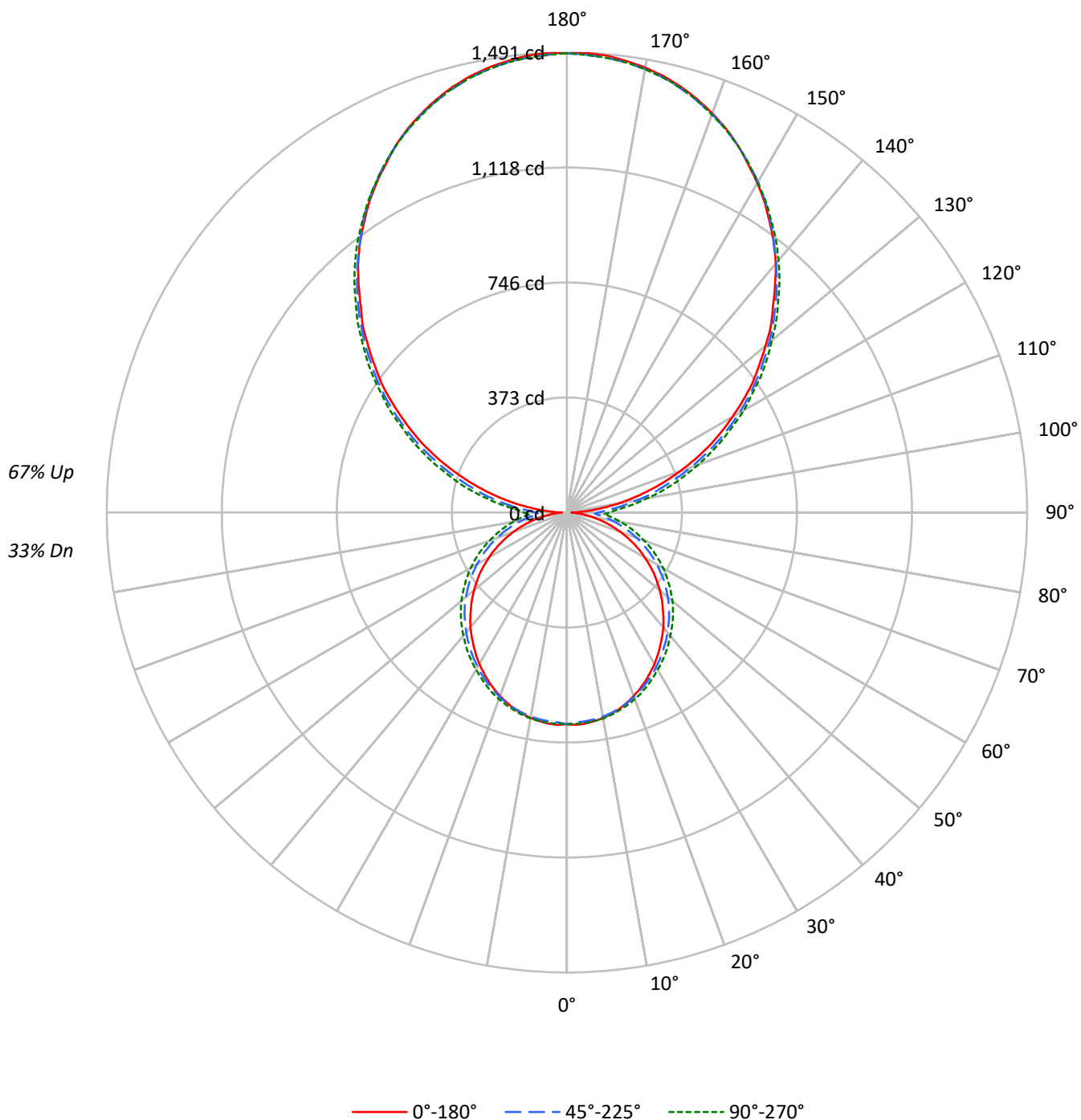
Lumens per Lamp: N/A
Luminaire Lumens: 6472.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	74	74	74		57	57	57		41
1	93	89	85	81	84	80	77	74	64	61	59		49	47	46		35
2	85	77	71	66	76	70	64	60	56	52	48		42	40	38		30
3	77	68	60	54	69	61	55	50	49	44	40		37	34	32		27
4	70	60	52	46	63	54	47	42	43	38	34		33	30	27		24
5	64	53	45	39	58	48	41	36	38	33	29		29	26	23		21
6	59	47	39	33	53	43	36	31	34	29	25		27	23	20		19
7	55	42	35	29	49	38	32	27	31	26	22		24	20	17		17
8	51	38	31	25	45	35	28	23	28	23	19		22	18	15		16
9	47	35	27	22	42	32	25	21	26	21	17		20	16	14		15
10	44	32	25	20	39	29	23	18	24	19	15		18	15	12		14

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: 90°

Luminance: 5154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.0
10°-20°	186.2	2.9
20°-30°	281.6	4.4
30°-40°	340.7	5.3
40°-50°	360.2	5.6
50°-60°	339.0	5.2
60°-70°	281.3	4.3
70°-80°	197.4	3.0
80°-90°	114.5	1.8
90°-100°	163.3	2.5
100°-110°	339.7	5.2
110°-120°	526.6	8.1
120°-130°	669.6	10.3
130°-140°	739.3	11.4
140°-150°	720.3	11.1
150°-160°	604.5	9.3
160°-170°	402.2	6.2
170°-180°	140.8	2.2
0°-30°	532.8	8.2
0°-40°	873.5	13.5
0°-60°	1572.7	24.3
0°-90°	2165.8	33.5
90°-120°	1029.5	15.9
90°-150°	3158.6	48.8
90°-180°	4306.0	66.5
0°-180°	6472.0	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°	16	59	101	130	139	13
95°	79	115	154	178	185	83
105°	275	292	325	347	357	292
115°	506	513	536	551	556	500
125°	734	733	751	764	766	655
135°	944	951	957	967	968	731
145°	1146	1150	1151	1155	1154	718
155°	1312	1312	1311	1316	1311	604
165°	1429	1425	1423	1430	1425	403
175°	1486	1480	1479	1487	1479	141
180°	1488	1488	1488	1488	1488	

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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°	15.8	59.1	101.4	130.5	139.0
92.5°	41.4	83.3	122.1	147.1	154.4
95°	79.1	114.7	154.3	178.5	185.4
97.5°	119.7	151.2	191.9	216.5	223.4
100°	169.7	194.2	234.5	257.5	262.9
102.5°	222.6	240.7	279.0	302.4	309.8
105°	275.1	291.7	324.7	347.3	357.0
107.5°	331.5	345.8	373.8	397.6	401.8
110°	388.3	401.4	427.1	442.5	452.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	447.4	456.6	479.6	496.6	502.7
115°	506.5	513.4	535.7	551.4	555.7
117.5°	562.9	567.5	589.5	602.1	604.7
120°	618.5	625.4	644.3	653.9	662.3
122.5°	677.2	678.4	698.0	709.9	709.5
125°	734.1	733.3	751.3	763.6	765.9
127.5°	785.9	788.5	801.6	813.1	817.4
130°	840.3	843.0	855.3	866.9	866.9
132.5°	896.7	898.2	906.4	917.1	920.5
135°	944.3	951.2	956.6	966.6	967.7
137.5°	998.4	1001.1	1006.4	1014.6	1019.5
140°	1052.5	1054.1	1054.8	1063.6	1066.4
142.5°	1101.3	1103.6	1101.6	1110.1	1113.1
145°	1146.2	1150.0	1151.1	1154.6	1154.2
147.5°	1192.2	1197.2	1196.0	1195.7	1197.5
150°	1233.7	1237.5	1237.5	1237.5	1236.3
152.5°	1272.0	1274.3	1275.5	1278.9	1275.5
155°	1312.3	1312.3	1311.1	1315.7	1311.1
157.5°	1346.8	1344.5	1344.5	1348.0	1344.5
160°	1376.8	1375.6	1374.5	1377.9	1372.2
162.5°	1404.4	1400.9	1399.8	1406.7	1400.9
165°	1428.6	1425.1	1422.8	1429.7	1425.1
167.5°	1448.1	1443.5	1443.5	1450.4	1443.5
170°	1464.2	1458.5	1459.6	1466.5	1458.5
172.5°	1475.8	1471.2	1471.2	1479.2	1471.2
175°	1486.1	1480.4	1479.2	1487.3	1479.2
177.5°	1490.7	1485.0	1485.0	1493.0	1483.8
180°	1488.4	1488.4	1488.4	1488.4	1488.4

(END OF REPORT)