

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: P1013083

Luminaire Tested: S124DIP-B575D1205UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013083
REPORT IS A COMBINATION OF REPORTS P996096 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB2750-4F0-XX-W2A-D_4000K
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

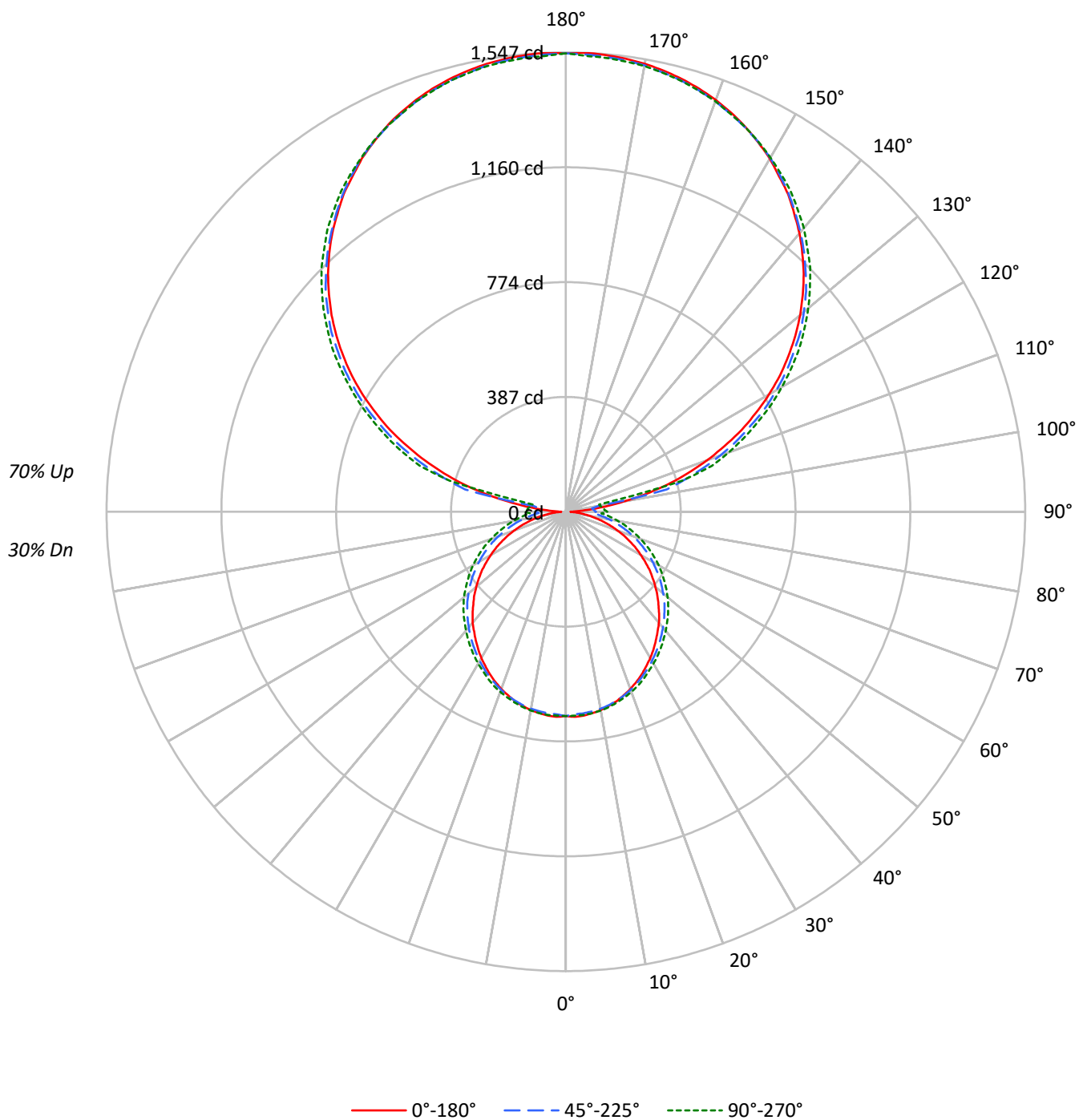
Lumens per Lamp: N/A
Luminaire Lumens: 7126.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	30	10	50	30	10
RCR																				
0	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31	31	31	31
2	84	77	71	65	75	69	64	59	54	51	47	41	38	36	28	27	26	26	26	26
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21	21	21	21
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18	18	18	18
5	64	52	44	39	57	47	40	35	37	32	29	28	25	22	20	18	16	16	16	16
6	59	47	39	33	52	42	35	30	34	28	25	26	22	19	18	16	14	14	14	14
7	54	42	34	29	48	38	31	26	30	25	22	23	19	17	16	14	12	12	12	12
8	50	38	30	25	45	34	28	23	28	23	19	21	17	15	15	13	11	11	11	11
9	47	35	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10	10	10	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9	9	9	9

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: 90°
Luminance: 5154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	0.9
10°-20°	186.8	2.6
20°-30°	282.4	4.0
30°-40°	341.7	4.8
40°-50°	361.2	5.1
50°-60°	340.0	4.8
60°-70°	282.1	4.0
70°-80°	198.0	2.8
80°-90°	114.8	1.6
90°-100°	117.7	1.7
100°-110°	386.7	5.4
110°-120°	677.4	9.5
120°-130°	836.7	11.7
130°-140°	883.2	12.4
140°-150°	819.9	11.5
150°-160°	659.9	9.3
160°-170°	425.6	6.0
170°-180°	146.7	2.1
0°-30°	534.4	7.5
0°-40°	876.2	12.3
0°-60°	1577.4	22.1
0°-90°	2172.3	30.5
90°-120°	1181.8	16.6
90°-150°	3721.5	52.2
90°-180°	4954.0	69.5
0°-180°	7126.0	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°	16	59	102	131	139	12
95°	74	60	92	120	128	86
105°	354	377	411	441	405	372
115°	654	664	687	707	712	644
125°	915	919	936	954	960	818
135°	1133	1132	1142	1157	1164	873
145°	1306	1308	1308	1314	1319	816
155°	1431	1432	1428	1433	1429	660
165°	1509	1503	1503	1512	1502	426
175°	1544	1537	1538	1548	1534	147
180°	1544	1544	1544	1544	1544	

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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°	15.8	59.4	101.7	130.9	139.4
92.5°	28.9	53.5	95.9	124.4	130.6
95°	73.5	59.6	92.4	120.1	128.3
97.5°	130.4	178.2	88.6	114.4	122.5
100°	197.9	238.6	109.4	110.6	117.1
102.5°	274.1	304.8	348.0	108.2	114.4
105°	354.4	376.8	411.1	440.7	405.4
107.5°	429.5	446.1	481.1	506.2	516.2
110°	505.0	519.3	553.1	573.1	582.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.1	594.2	622.0	637.8	648.6
115°	653.5	664.0	687.4	706.7	712.1
117.5°	721.6	730.8	757.5	772.4	778.6
120°	790.2	797.1	818.3	836.0	839.9
122.5°	854.9	857.2	880.3	896.8	899.9
125°	915.2	919.1	936.1	954.1	959.9
127.5°	974.1	974.5	995.7	1008.4	1012.6
130°	1029.9	1030.3	1046.1	1061.1	1065.8
132.5°	1081.9	1083.4	1097.3	1111.5	1115.0
135°	1133.0	1131.9	1141.9	1156.6	1163.5
137.5°	1179.2	1178.5	1187.4	1201.2	1203.9
140°	1224.2	1225.8	1228.9	1242.4	1247.4
142.5°	1263.9	1268.6	1268.9	1279.7	1282.8
145°	1305.5	1308.2	1308.2	1313.9	1319.3
147.5°	1337.8	1344.0	1342.8	1344.8	1349.0
150°	1373.6	1377.5	1376.3	1376.3	1377.5
152.5°	1402.9	1406.3	1404.0	1406.3	1405.2
155°	1430.6	1431.7	1428.3	1432.9	1429.4
157.5°	1454.8	1454.8	1450.2	1456.0	1450.2
160°	1475.6	1472.1	1471.0	1477.9	1471.0
162.5°	1494.1	1489.5	1488.3	1495.2	1487.1
165°	1509.1	1503.3	1503.3	1512.5	1502.2
167.5°	1521.8	1516.0	1514.9	1525.2	1513.7
170°	1532.2	1525.2	1526.4	1535.6	1524.1
172.5°	1539.1	1532.2	1533.3	1542.6	1529.9
175°	1543.7	1536.8	1537.9	1548.3	1534.5
177.5°	1547.2	1539.1	1541.4	1550.6	1536.8
180°	1543.7	1543.7	1543.7	1543.7	1543.7

(END OF REPORT)