

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: P1025555

Luminaire Tested: S124DIP-B575D1205UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025555
REPORT IS A COMBINATION OF REPORTS P996125 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB40-4F0-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

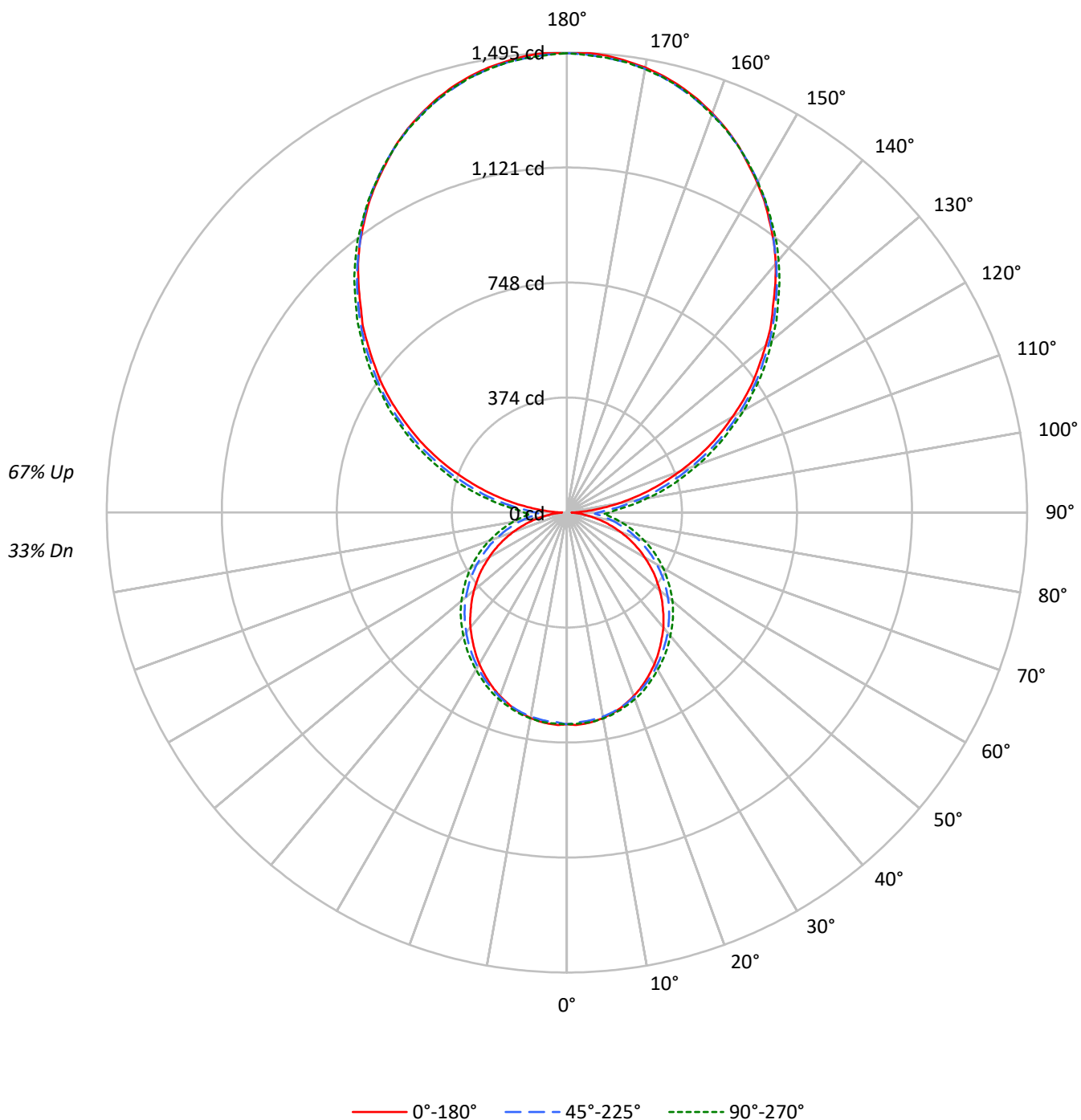
Lumens per Lamp: N/A
Luminaire Lumens: 6491.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41			33
1	93	89	85	81	84	80	77	74	64	61	59	49	47	46	35	34	33			27
2	85	77	71	66	76	70	64	60	56	52	48	42	40	38	30	29	27			22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	32	27	25	23			18
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	21	20			15
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17			13
6	59	47	39	33	53	43	36	31	34	29	25	27	23	20	19	17	15			12
7	55	42	35	29	49	38	32	27	31	26	22	24	20	17	17	15	13			10
8	51	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	12			9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	15	12	10			8
10	44	32	25	20	39	29	23	18	24	19	15	18	15	12	14	11	9			7

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	1.0
10°-20°	186.8	2.9
20°-30°	282.4	4.4
30°-40°	341.7	5.3
40°-50°	361.2	5.6
50°-60°	340.0	5.2
60°-70°	282.1	4.3
70°-80°	198.0	3.1
80°-90°	114.8	1.8
90°-100°	163.7	2.5
100°-110°	340.6	5.2
110°-120°	528.1	8.1
120°-130°	671.5	10.3
130°-140°	741.4	11.4
140°-150°	722.4	11.1
150°-160°	606.3	9.3
160°-170°	403.4	6.2
170°-180°	141.2	2.2
0°-30°	534.4	8.2
0°-40°	876.2	13.5
0°-60°	1577.4	24.3
0°-90°	2172.3	33.5
90°-120°	1032.5	15.9
90°-150°	3167.8	48.8
90°-180°	4319.0	66.5
0°-180°	6491.0	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	14
95°	79	115	155	179	186	83
105°	276	292	326	348	358	293
115°	508	515	537	553	557	501
125°	736	735	754	766	768	656
135°	947	954	959	969	971	733
145°	1150	1153	1154	1158	1158	720
155°	1316	1316	1315	1320	1315	606
165°	1433	1429	1427	1434	1429	404
175°	1490	1485	1484	1492	1484	142
180°	1493	1493	1493	1493	1493	

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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°	41.6	83.5	122.5	147.5	154.8
95°	79.3	115.1	154.7	179.0	186.0
97.5°	120.0	151.7	192.5	217.1	224.1
100°	170.1	194.7	235.2	258.3	263.7
102.5°	223.2	241.3	279.8	303.3	310.6
105°	275.9	292.4	325.7	348.3	358.0
107.5°	332.5	346.7	374.9	398.8	403.0
110°	389.5	402.6	428.3	443.7	453.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	448.7	457.9	481.1	498.0	504.2
115°	508.0	515.0	537.2	553.1	557.3
117.5°	564.5	569.1	591.2	603.8	606.5
120°	620.4	627.3	646.1	655.8	664.3
122.5°	679.3	680.4	700.1	712.0	711.6
125°	736.2	735.4	753.5	765.8	768.1
127.5°	788.1	790.8	803.9	815.5	819.7
130°	842.8	845.4	857.8	869.3	869.4
132.5°	899.3	900.8	909.0	919.8	923.2
135°	947.0	953.9	959.3	969.4	970.6
137.5°	1001.3	1004.0	1009.5	1017.5	1022.5
140°	1055.5	1057.1	1057.8	1066.8	1069.4
142.5°	1104.5	1106.8	1104.8	1113.3	1116.4
145°	1149.5	1153.3	1154.5	1157.9	1157.6
147.5°	1195.7	1200.7	1199.5	1199.1	1201.1
150°	1237.2	1241.1	1241.1	1241.1	1239.9
152.5°	1275.7	1278.0	1279.2	1282.6	1279.2
155°	1316.1	1316.1	1315.0	1319.6	1315.0
157.5°	1350.7	1348.4	1348.4	1351.9	1348.4
160°	1380.8	1379.6	1378.4	1381.9	1376.1
162.5°	1408.5	1405.0	1403.8	1410.8	1405.0
165°	1432.7	1429.2	1426.9	1433.9	1429.2
167.5°	1452.3	1447.7	1447.7	1454.6	1447.7
170°	1468.5	1462.7	1463.9	1470.8	1462.7
172.5°	1480.0	1475.4	1475.4	1483.5	1475.4
175°	1490.4	1484.7	1483.5	1491.6	1483.5
177.5°	1495.1	1489.3	1489.3	1497.4	1488.1
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)