

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: P1025761

Luminaire Tested: S124DIP-B795D1205UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025761
REPORT IS A COMBINATION OF REPORTS P996406 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

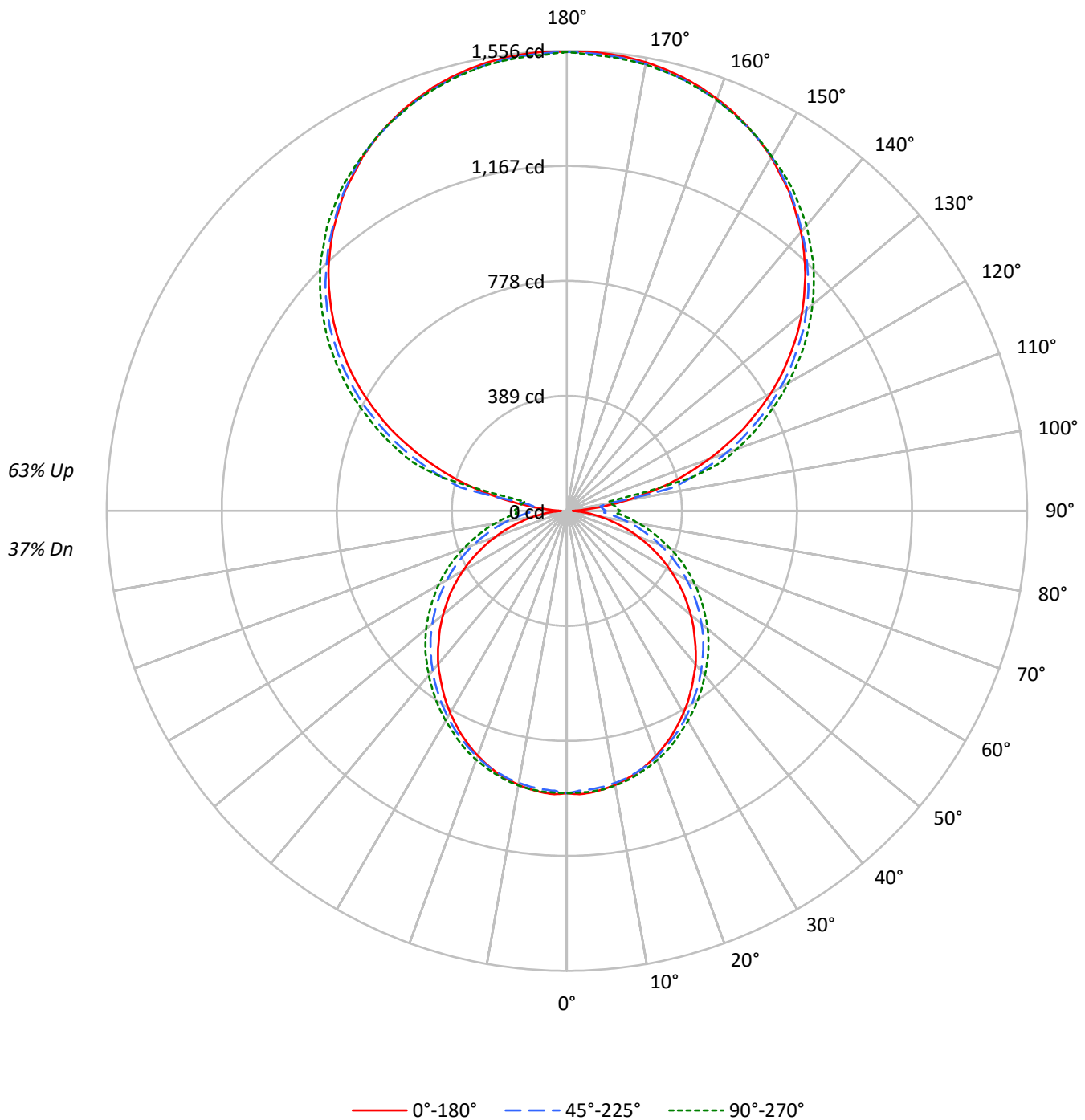
Lumens per Lamp: N/A
Luminaire Lumens: 8063.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
Input Voltage (V):
Input Current (A_{in}): 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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36
2	85	78	71	66	77	71	65	61	57	53	50	45	42	40	33	31	30
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7788	7788	7788
5°	7809	7585	7599
10°	7758	7435	7414
15°	7686	7268	7206
20°	7578	7086	7005
25°	7457	6886	6787
30°	7325	6687	6565
35°	7177	6485	6367
40°	7059	6289	6162
45°	6882	6107	5982
50°	6732	5899	5791
55°	6577	5698	5572
60°	6336	5450	5365
65°	6071	5181	5115
70°	5749	4874	4828
75°	5300	4533	4554
80°	4796	4186	4267
85°	4126	3836	4035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.1
10°-20°	259.3	3.2
20°-30°	392.0	4.9
30°-40°	474.3	5.9
40°-50°	501.4	6.2
50°-60°	471.9	5.9
60°-70°	391.5	4.9
70°-80°	274.8	3.4
80°-90°	158.1	2.0
90°-100°	143.8	1.8
100°-110°	407.7	5.1
110°-120°	693.9	8.6
120°-130°	848.5	10.5
130°-140°	891.2	11.1
140°-150°	825.2	10.2
150°-160°	663.6	8.2
160°-170°	428.0	5.3
170°-180°	147.5	1.8
0°-30°	741.8	9.2
0°-40°	1216.0	15.1
0°-60°	2189.2	27.2
0°-90°	3013.7	37.4
90°-120°	1245.3	15.4
90°-150°	3810.2	47.3
90°-180°	5049.0	62.6
0°-180°	8063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	945	954	953	91
15°	916	918	914	924	923	258
25°	838	845	848	860	861	386
35°	734	746	757	772	775	459
45°	612	632	652	670	676	473
55°	479	502	534	555	562	427
65°	332	366	402	429	437	329
75°	184	224	268	298	308	195
85°	57	102	150	182	192	59
90°	21	76	131	169	180	15
95°	78	74	118	154	165	90
105°	359	388	433	470	437	377
115°	659	672	705	731	738	649
125°	922	925	950	973	981	823
135°	1140	1139	1151	1170	1179	879
145°	1313	1316	1316	1323	1330	821
155°	1439	1440	1436	1441	1438	663
165°	1518	1512	1512	1521	1511	429
175°	1552	1546	1547	1557	1543	148
180°	1552	1552	1552	1552	1552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.0	955.0	955.0	955.0	955.0
2.5°	959.3	956.1	947.5	955.0	953.9
5°	956.1	952.9	945.4	953.9	952.9
7.5°	949.7	947.5	941.1	950.7	949.7
10°	941.1	940.0	934.7	944.3	943.2
12.5°	929.3	929.3	926.1	934.7	934.7
15°	916.5	917.6	914.4	924.0	922.9
17.5°	899.4	902.6	901.5	911.2	910.1
20°	881.2	884.4	885.5	896.2	896.2
22.5°	860.9	865.2	867.3	878.0	880.1
25°	838.4	844.9	848.1	859.8	860.9
27.5°	813.8	823.5	827.7	838.4	839.5
30°	789.2	797.8	805.3	817.0	819.2
32.5°	762.5	773.2	781.8	795.7	797.8
35°	733.6	746.5	757.2	772.1	775.3
37.5°	704.8	719.7	732.6	747.5	750.7
40°	677.0	690.9	705.8	721.9	726.1
42.5°	644.9	660.9	679.1	697.3	700.5
45°	611.7	632.0	652.4	670.5	675.9
47.5°	580.7	601.0	624.5	642.7	649.1
50°	546.5	570.0	593.5	614.9	621.3
52.5°	512.3	535.8	563.6	585.0	591.4
55°	479.1	501.6	533.6	555.0	561.5
57.5°	441.7	469.5	500.5	526.2	531.5
60°	405.3	433.1	468.4	493.0	501.6
62.5°	370.0	401.0	436.3	460.9	469.5
65°	331.5	365.7	402.1	428.8	437.4
67.5°	295.2	331.5	370.0	396.8	405.3
70°	257.7	294.1	334.7	363.6	371.1
72.5°	221.4	258.8	302.6	330.5	339.0
75°	183.9	223.5	268.4	298.4	308.0
77.5°	148.7	190.4	237.4	267.4	278.1
80°	116.6	159.3	206.4	238.5	247.0
82.5°	84.5	129.4	176.5	209.6	219.2
85°	56.7	101.6	149.7	181.8	192.5
87.5°	35.3	79.1	126.2	157.2	166.8
90°	20.6	76.2	131.4	169.4	180.2
92.5°	33.4	68.6	123.9	160.8	169.4
95°	77.8	73.6	118.5	154.4	165.2
97.5°	134.7	191.3	113.2	146.9	157.6
100°	202.2	250.9	132.4	141.6	150.1
102.5°	278.9	316.3	370.8	137.4	146.0
105°	359.1	387.5	432.9	470.0	436.8
107.5°	434.6	456.3	501.8	534.4	546.5
110°	510.2	528.6	573.1	600.0	612.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	603.2	640.8	663.2	676.4
115°	659.0	672.0	705.2	731.0	738.5
117.5°	727.5	738.5	774.1	795.4	803.9
120°	796.0	804.0	833.8	857.5	863.7
122.5°	861.1	863.4	894.6	917.2	922.3
125°	921.6	925.1	949.5	973.4	981.0
127.5°	980.8	980.9	1008.1	1026.1	1032.5
130°	1036.6	1036.7	1057.3	1077.7	1084.1
132.5°	1088.9	1090.1	1107.6	1127.0	1132.2
135°	1140.0	1138.9	1151.0	1170.4	1179.2
137.5°	1186.5	1185.5	1195.5	1213.9	1218.0
140°	1231.7	1233.1	1236.4	1253.8	1260.3
142.5°	1271.4	1276.0	1276.1	1290.2	1294.4
145°	1313.2	1315.6	1315.6	1323.1	1329.8
147.5°	1345.7	1351.6	1350.4	1352.7	1358.0
150°	1381.7	1385.2	1384.1	1384.1	1385.2
152.5°	1410.8	1414.3	1411.9	1414.3	1413.1
155°	1438.6	1439.8	1436.3	1441.0	1437.5
157.5°	1463.0	1463.0	1458.4	1464.2	1458.4
160°	1483.9	1480.4	1479.3	1486.3	1479.3
162.5°	1502.5	1497.9	1496.7	1503.7	1495.5
165°	1517.6	1511.8	1511.8	1521.1	1510.6
167.5°	1530.4	1524.6	1523.4	1533.9	1522.2
170°	1540.8	1533.9	1535.0	1544.3	1532.7
172.5°	1547.8	1540.8	1542.0	1551.3	1538.5
175°	1552.4	1545.5	1546.6	1557.1	1543.1
177.5°	1555.9	1547.8	1550.1	1559.4	1545.5
180°	1552.4	1552.4	1552.4	1552.4	1552.4

(END OF REPORT)