

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: P1034267

Luminaire Tested: S124RDIW-B795D1560UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034267
REPORT IS A COMBINATION OF REPORTS P1000817 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B795D1560UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

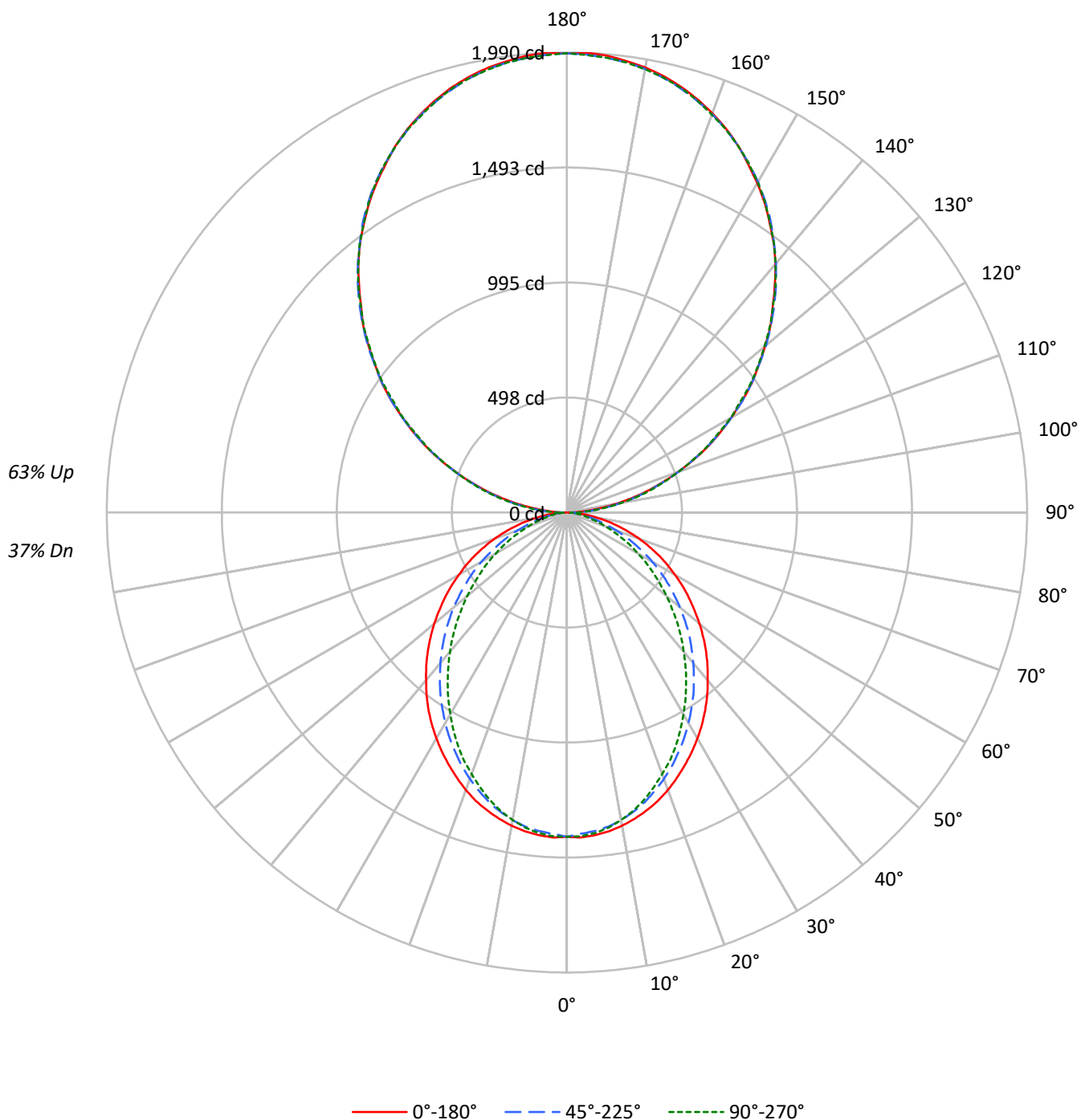
Lumens per Lamp: N/A
Luminaire Lumens: 8758.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	39	39	38
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27
4	72	62	54	49	65	57	50	45	46	41	38	37	33	31	28	26	24
5	67	55	47	42	60	51	44	39	41	36	33	33	29	27	25	23	21
6	61	50	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11438	11438	11438
5°	11439	11098	11099
10°	11342	10748	10620
15°	11186	10312	10055
20°	10982	9815	9410
25°	10727	9279	8781
30°	10478	8732	8073
35°	10203	8177	7382
40°	9877	7579	6672
45°	9570	6987	5970
50°	9222	6341	5256
55°	8846	5677	4519
60°	8429	4974	3790
65°	8025	4166	3090
70°	7451	3316	2361
75°	6717	2412	1652
80°	5610	1481	1187
85°	4221	853	652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.5
10°-20°	367.8	4.2
20°-30°	530.9	6.1
30°-40°	601.7	6.9
40°-50°	581.0	6.6
50°-60°	483.0	5.5
60°-70°	333.4	3.8
70°-80°	168.5	1.9
80°-90°	47.0	0.5
90°-100°	129.5	1.5
100°-110°	387.9	4.4
110°-120°	659.0	7.5
120°-130°	869.1	9.9
130°-140°	976.1	11.1
140°-150°	959.4	11.0
150°-160°	806.9	9.2
160°-170°	536.9	6.1
170°-180°	188.0	2.1
0°-30°	1030.6	11.8
0°-40°	1632.3	18.6
0°-60°	2696.4	30.8
0°-90°	3245.2	37.1
90°-120°	1176.4	13.4
90°-150°	3981.0	45.5
90°-180°	5513.0	62.9
0°-180°	8758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1400	1396	1383	1394	1392	133
15°	1334	1324	1297	1295	1288	376
25°	1206	1187	1143	1124	1114	556
35°	1043	1008	955	918	899	652
45°	851	811	746	694	674	656
55°	644	601	532	476	455	576
65°	438	392	323	277	264	433
75°	233	193	143	118	112	246
85°	58	36	33	31	31	64
90°	5	22	34	43	46	10
95°	92	106	117	121	121	100
105°	358	360	366	370	375	380
115°	670	670	667	665	664	661
125°	976	976	974	971	968	870
135°	1258	1268	1268	1265	1260	974
145°	1529	1535	1537	1535	1530	957
155°	1752	1752	1750	1756	1750	806
165°	1907	1902	1899	1908	1902	538
175°	1984	1976	1974	1985	1974	188
180°	1987	1987	1987	1987	1987	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.7	1402.7	1402.7	1402.7	1402.7
2.5°	1407.0	1402.7	1390.8	1402.7	1401.6
5°	1400.5	1396.2	1383.3	1394.1	1391.9
7.5°	1390.8	1386.6	1370.4	1378.0	1374.7
10°	1375.8	1370.4	1351.1	1355.4	1351.1
12.5°	1356.5	1350.0	1326.4	1328.6	1322.1
15°	1333.9	1324.3	1297.4	1295.3	1287.7
17.5°	1308.1	1294.2	1263.0	1257.7	1246.9
20°	1277.0	1263.0	1226.5	1217.9	1204.0
22.5°	1242.6	1226.5	1186.8	1172.8	1162.1
25°	1206.1	1186.8	1142.8	1124.5	1113.8
27.5°	1168.5	1144.9	1098.7	1077.2	1062.2
30°	1128.8	1101.9	1051.5	1024.6	1007.4
32.5°	1086.9	1055.8	1003.1	970.9	954.8
35°	1042.9	1008.5	954.8	918.3	898.9
37.5°	996.7	961.2	902.2	862.4	843.1
40°	947.3	911.8	850.6	805.5	786.2
42.5°	900.0	862.4	798.0	751.8	731.4
45°	850.6	810.9	746.4	693.8	674.5
47.5°	800.1	759.3	692.7	638.0	616.5
50°	748.6	706.7	638.0	584.3	563.9
52.5°	696.0	655.1	584.3	529.5	508.0
55°	644.4	601.4	531.6	475.8	455.4
57.5°	593.9	548.8	480.1	423.2	408.1
60°	539.2	496.2	427.5	371.6	354.4
62.5°	489.8	444.6	373.8	323.3	310.4
65°	438.2	392.0	323.3	277.1	264.2
67.5°	384.5	340.5	276.0	235.2	220.2
70°	334.0	288.9	227.7	192.2	181.5
72.5°	280.3	240.6	183.7	154.7	145.0
75°	233.1	193.3	142.8	118.1	111.7
77.5°	183.7	149.3	106.3	89.1	87.0
80°	136.4	105.3	73.0	69.8	68.7
82.5°	95.6	67.7	52.6	50.5	49.4
85°	58.0	36.5	33.3	31.1	31.1
87.5°	24.7	16.1	15.0	14.0	15.0
90°	4.6	21.5	33.8	43.0	46.1
92.5°	40.0	59.9	67.6	72.2	73.8
95°	92.2	106.0	116.8	121.4	121.4
97.5°	147.5	159.8	172.1	178.2	178.2
100°	215.1	221.3	235.1	238.2	238.2
102.5°	285.8	287.3	299.6	304.2	305.8
105°	358.0	359.6	365.7	370.3	374.9
107.5°	433.3	434.9	436.4	442.5	441.0
110°	510.2	513.2	511.7	508.6	513.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	590.1	590.1	587.0	587.0	587.0
115°	670.0	670.0	666.9	665.4	663.8
117.5°	745.3	745.3	743.7	739.1	734.5
120°	820.6	826.7	822.1	814.4	817.5
122.5°	898.9	900.5	898.9	894.3	886.6
125°	975.7	975.7	974.2	971.1	968.1
127.5°	1044.9	1049.5	1046.4	1043.4	1041.8
130°	1118.7	1123.3	1123.3	1120.2	1114.0
132.5°	1193.9	1197.0	1195.5	1192.4	1190.9
135°	1258.5	1267.7	1267.7	1264.6	1260.0
137.5°	1330.7	1335.3	1338.4	1333.8	1335.3
140°	1402.9	1406.0	1406.0	1404.5	1402.9
142.5°	1469.0	1472.1	1470.5	1470.5	1470.5
145°	1528.9	1535.1	1536.6	1535.1	1530.5
147.5°	1590.4	1598.1	1596.5	1595.0	1593.5
150°	1645.7	1651.9	1651.9	1651.9	1650.3
152.5°	1698.0	1701.0	1702.6	1707.2	1702.6
155°	1751.7	1751.7	1750.2	1756.3	1750.2
157.5°	1797.8	1794.8	1794.8	1799.4	1794.8
160°	1837.8	1836.3	1834.7	1839.3	1831.6
162.5°	1874.7	1870.1	1868.5	1877.7	1870.1
165°	1906.9	1902.3	1899.3	1908.5	1902.3
167.5°	1933.1	1926.9	1926.9	1936.1	1926.9
170°	1954.6	1946.9	1948.4	1957.6	1946.9
172.5°	1969.9	1963.8	1963.8	1974.5	1963.8
175°	1983.8	1976.1	1974.5	1985.3	1974.5
177.5°	1989.9	1982.2	1982.2	1993.0	1980.7
180°	1986.8	1986.8	1986.8	1986.8	1986.8

(END OF REPORT)