

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: P1034263

Luminaire Tested: S124RDIW-B795D1560UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034263
REPORT IS A COMBINATION OF REPORTS P1000811 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B795D1560UB30-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

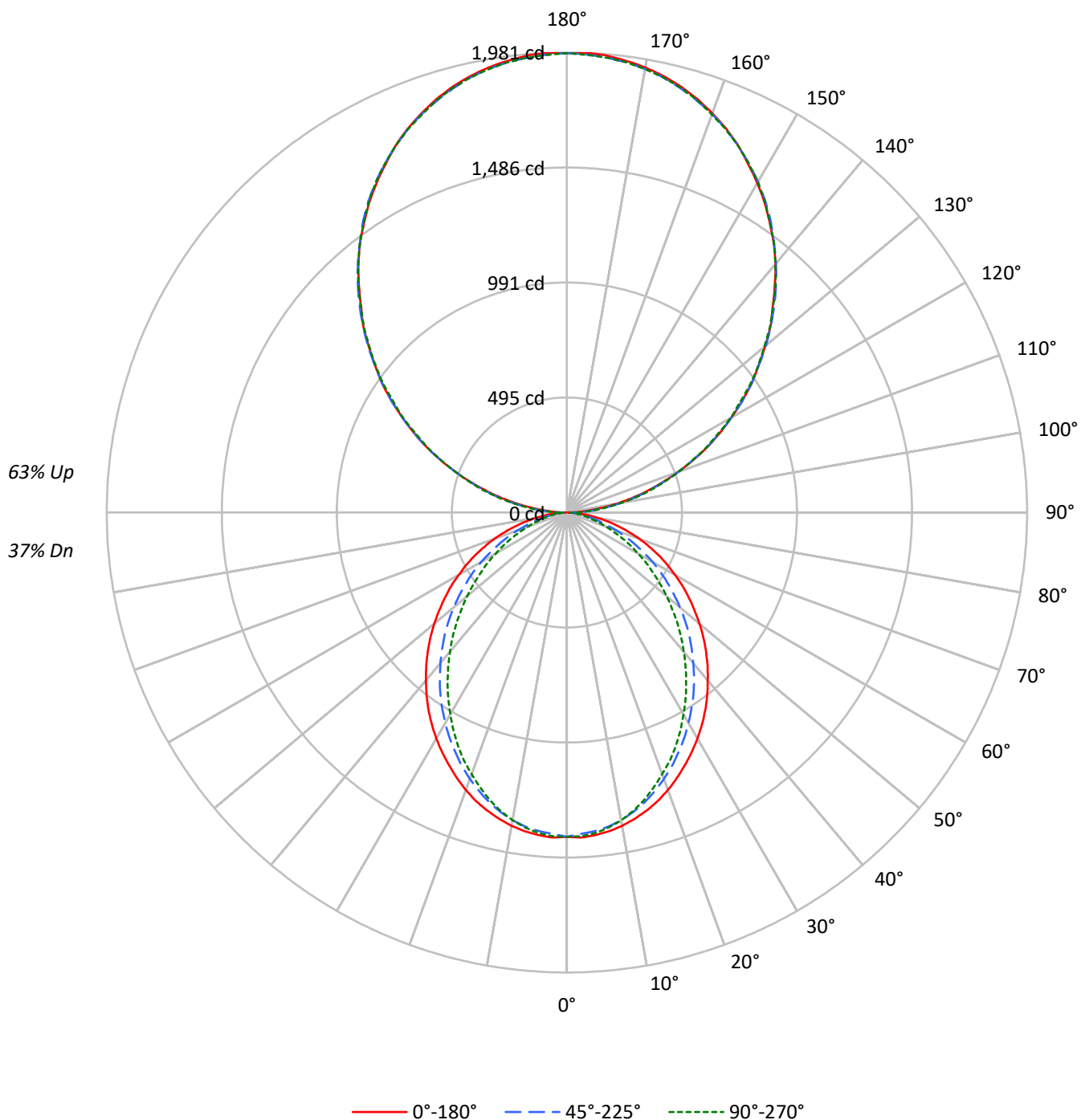
Lumens per Lamp: N/A
Luminaire Lumens: 8720.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	11389	11389	11389
5°	11390	11051	11051
10°	11293	10702	10574
15°	11138	10267	10012
20°	10934	9772	9370
25°	10681	9238	8742
30°	10432	8693	8039
35°	10159	8142	7351
40°	9834	7546	6644
45°	9528	6957	5944
50°	9183	6313	5232
55°	8807	5653	4499
60°	8391	4952	3774
65°	7990	4148	3077
70°	7420	3301	2351
75°	6689	2401	1644
80°	5585	1474	1182
85°	4199	851	650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9528 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.5
10°-20°	366.2	4.2
20°-30°	528.7	6.1
30°-40°	599.1	6.9
40°-50°	578.5	6.6
50°-60°	480.9	5.5
60°-70°	331.9	3.8
70°-80°	167.7	1.9
80°-90°	46.8	0.5
90°-100°	129.0	1.5
100°-110°	386.2	4.4
110°-120°	656.1	7.5
120°-130°	865.3	9.9
130°-140°	971.9	11.1
140°-150°	955.2	11.0
150°-160°	803.4	9.2
160°-170°	534.5	6.1
170°-180°	187.2	2.1
0°-30°	1026.2	11.8
0°-40°	1625.3	18.6
0°-60°	2684.7	30.8
0°-90°	3231.2	37.1
90°-120°	1171.3	13.4
90°-150°	3963.7	45.5
90°-180°	5489.0	62.9
0°-180°	8720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1394	1390	1377	1388	1386	132
15°	1328	1318	1292	1290	1282	374
25°	1201	1182	1138	1120	1109	553
35°	1038	1004	951	914	895	649
45°	847	807	743	691	672	653
55°	642	599	529	474	453	574
65°	436	390	322	276	263	431
75°	232	192	142	118	111	245
85°	58	36	33	31	31	63
90°	5	21	34	43	46	10
95°	92	106	116	121	121	99
105°	356	358	364	369	373	378
115°	667	667	664	662	661	658
125°	972	972	970	967	964	866
135°	1253	1262	1262	1259	1254	969
145°	1522	1528	1530	1528	1524	953
155°	1744	1744	1743	1749	1743	803
165°	1899	1894	1891	1900	1894	535
175°	1975	1968	1966	1977	1966	188
180°	1978	1978	1978	1978	1978	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1400.9	1396.6	1384.8	1396.6	1395.5
5°	1394.5	1390.2	1377.4	1388.0	1385.9
7.5°	1384.8	1380.6	1364.5	1372.0	1368.8
10°	1369.9	1364.5	1345.3	1349.6	1345.3
12.5°	1350.6	1344.2	1320.7	1322.8	1316.4
15°	1328.2	1318.5	1291.8	1289.7	1282.2
17.5°	1302.5	1288.6	1257.6	1252.2	1241.5
20°	1271.5	1257.6	1221.2	1212.7	1198.8
22.5°	1237.3	1221.2	1181.7	1167.8	1157.1
25°	1200.9	1181.7	1137.8	1119.6	1108.9
27.5°	1163.5	1140.0	1094.0	1072.6	1057.6
30°	1123.9	1097.2	1046.9	1020.2	1003.1
32.5°	1082.2	1051.2	998.8	966.7	950.7
35°	1038.4	1004.1	950.7	914.3	895.1
37.5°	992.4	957.1	898.3	858.7	839.5
40°	943.2	907.9	846.9	802.0	782.8
42.5°	896.1	858.7	794.5	748.6	728.2
45°	846.9	807.4	743.2	690.8	671.6
47.5°	796.7	756.0	689.7	635.2	613.8
50°	745.4	703.6	635.2	581.7	561.4
52.5°	693.0	652.3	581.7	527.2	505.8
55°	641.6	598.8	529.3	473.7	453.4
57.5°	591.4	546.5	478.0	421.3	406.4
60°	536.8	494.1	425.6	370.0	352.9
62.5°	487.6	442.7	372.1	321.9	309.0
65°	436.3	390.3	321.9	275.9	263.1
67.5°	382.8	339.0	274.8	234.2	219.2
70°	332.6	287.7	226.7	191.4	180.7
72.5°	279.1	239.5	182.9	154.0	144.4
75°	232.1	192.5	142.2	117.6	111.2
77.5°	182.9	148.6	105.9	88.8	86.6
80°	135.8	104.8	72.7	69.5	68.4
82.5°	95.2	67.4	52.4	50.3	49.2
85°	57.7	36.4	33.2	31.0	31.0
87.5°	24.6	16.0	15.0	13.9	15.0
90°	4.6	21.4	33.7	42.8	45.9
92.5°	39.8	59.7	67.3	71.9	73.4
95°	91.8	105.6	116.3	120.9	120.9
97.5°	146.9	159.1	171.4	177.5	177.5
100°	214.2	220.3	234.1	237.1	237.1
102.5°	284.6	286.1	298.3	302.9	304.5
105°	356.5	358.0	364.1	368.7	373.3
107.5°	431.4	433.0	434.5	440.6	439.1
110°	507.9	511.0	509.5	506.4	511.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	587.5	587.5	584.4	584.4	584.4
115°	667.0	667.0	664.0	662.5	660.9
117.5°	742.0	742.0	740.5	735.9	731.3
120°	817.0	823.1	818.5	810.9	813.9
122.5°	895.0	896.5	895.0	890.4	882.8
125°	971.5	971.5	970.0	966.9	963.9
127.5°	1040.4	1044.9	1041.9	1038.8	1037.3
130°	1113.8	1118.4	1118.4	1115.3	1109.2
132.5°	1188.8	1191.8	1190.3	1187.2	1185.7
135°	1253.0	1262.2	1262.2	1259.1	1254.5
137.5°	1324.9	1329.5	1332.6	1328.0	1329.5
140°	1396.8	1399.9	1399.9	1398.4	1396.8
142.5°	1462.6	1465.7	1464.1	1464.1	1464.1
145°	1522.3	1528.4	1529.9	1528.4	1523.8
147.5°	1583.5	1591.1	1589.6	1588.1	1586.5
150°	1638.6	1644.7	1644.7	1644.7	1643.1
152.5°	1690.6	1693.6	1695.2	1699.8	1695.2
155°	1744.1	1744.1	1742.6	1748.7	1742.6
157.5°	1790.0	1787.0	1787.0	1791.5	1787.0
160°	1829.8	1828.3	1826.7	1831.3	1823.7
162.5°	1866.5	1861.9	1860.4	1869.6	1861.9
165°	1898.6	1894.1	1891.0	1900.2	1894.1
167.5°	1924.7	1918.5	1918.5	1927.7	1918.5
170°	1946.1	1938.4	1939.9	1949.1	1938.4
172.5°	1961.4	1955.2	1955.2	1966.0	1955.2
175°	1975.1	1967.5	1966.0	1976.7	1966.0
177.5°	1981.3	1973.6	1973.6	1984.3	1972.1
180°	1978.2	1978.2	1978.2	1978.2	1978.2

(END OF REPORT)