

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: P1032770

Luminaire Tested: S124DIW-B795D1050UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032770
REPORT IS A COMBINATION OF REPORTS P997957 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1050UB2750-4F0-XX-W2A-D_2700K
Description: Define 4 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

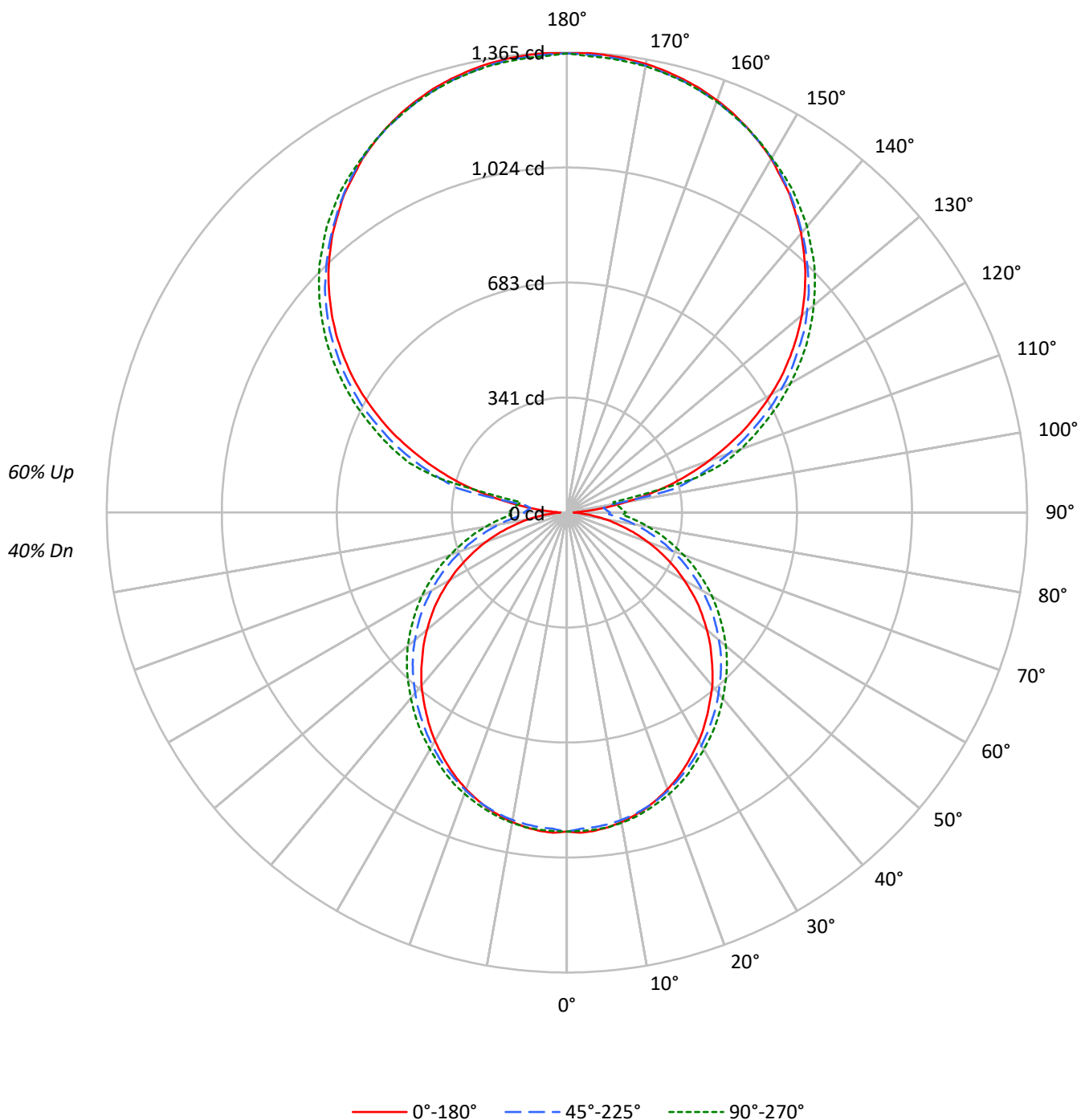
Lumens per Lamp: N/A
Luminaire Lumens: 7445.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	95	90	86	82	86	82	79	75	67	64	62	53	51	50	40	39	38			32
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31			26
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	31	28	26			22
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	25	22			18
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	24	22	19			16
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17			14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15			12
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	18	15	13			11
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12			10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7721	7721	7721
5°	7742	7519	7533
10°	7692	7371	7350
15°	7619	7205	7144
20°	7513	7025	6944
25°	7393	6827	6729
30°	7263	6630	6508
35°	7116	6428	6313
40°	6997	6236	6110
45°	6824	6054	5931
50°	6674	5848	5741
55°	6520	5650	5523
60°	6281	5403	5319
65°	6020	5136	5071
70°	5700	4833	4786
75°	5256	4494	4514
80°	4754	4149	4230
85°	4090	3803	3999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.2
10°-20°	257.0	3.5
20°-30°	388.6	5.2
30°-40°	470.2	6.3
40°-50°	497.1	6.7
50°-60°	467.8	6.3
60°-70°	388.2	5.2
70°-80°	272.4	3.7
80°-90°	156.4	2.1
90°-100°	136.6	1.8
100°-110°	365.4	4.9
110°-120°	613.9	8.2
120°-130°	747.3	10.0
130°-140°	783.1	10.5
140°-150°	724.1	9.7
150°-160°	582.2	7.8
160°-170°	375.5	5.0
170°-180°	129.4	1.7
0°-30°	735.4	9.9
0°-40°	1205.6	16.2
0°-60°	2170.4	29.2
0°-90°	2987.4	40.1
90°-120°	1116.0	15.0
90°-150°	3370.5	45.3
90°-180°	4458.0	59.9
0°-180°	7445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	945	937	946	945	90
15°	909	910	906	916	915	256
25°	831	838	841	852	854	383
35°	727	740	751	766	769	455
45°	606	627	647	665	670	469
55°	475	497	529	550	557	423
65°	329	363	399	425	434	326
75°	182	222	266	296	305	194
85°	56	101	148	180	191	59
90°	20	74	127	164	175	15
95°	70	70	115	149	160	80
105°	316	343	388	424	395	332
115°	579	591	624	650	657	570
125°	809	812	836	860	867	723
135°	1000	999	1011	1030	1038	771
145°	1152	1154	1154	1162	1168	720
155°	1262	1263	1260	1264	1261	582
165°	1331	1326	1326	1334	1325	376
175°	1362	1356	1357	1366	1354	130
180°	1362	1362	1362	1362	1362	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	951.0	947.9	939.4	946.8	945.7
5°	947.9	944.7	937.2	945.7	944.7
7.5°	941.5	939.4	933.0	942.6	941.5
10°	933.0	931.9	926.6	936.2	935.1
12.5°	921.3	921.3	918.2	926.6	926.6
15°	908.6	909.7	906.5	916.0	915.0
17.5°	891.7	894.8	893.8	903.3	902.3
20°	873.6	876.8	877.9	888.5	888.5
22.5°	853.5	857.7	859.9	870.5	872.6
25°	831.2	837.6	840.8	852.4	853.5
27.5°	806.8	816.4	820.6	831.2	832.3
30°	782.5	790.9	798.4	810.0	812.1
32.5°	755.9	766.6	775.0	788.8	790.9
35°	727.3	740.0	750.6	765.5	768.7
37.5°	698.7	713.5	726.3	741.1	744.3
40°	671.1	684.9	699.8	715.7	719.9
42.5°	639.3	655.2	673.3	691.3	694.5
45°	606.5	626.6	646.7	664.8	670.1
47.5°	575.7	595.9	619.2	637.2	643.6
50°	541.8	565.1	588.4	609.6	616.0
52.5°	507.9	531.2	558.7	579.9	586.3
55°	475.0	497.3	529.1	550.3	556.6
57.5°	437.9	465.4	496.2	521.6	526.9
60°	401.8	429.4	464.4	488.8	497.3
62.5°	366.8	397.6	432.6	457.0	465.4
65°	328.7	362.6	398.6	425.2	433.6
67.5°	292.6	328.7	366.8	393.3	401.8
70°	255.5	291.6	331.9	360.5	367.9
72.5°	219.5	256.6	300.0	327.6	336.1
75°	182.4	221.6	266.1	295.8	305.3
77.5°	147.4	188.7	235.4	265.1	275.7
80°	115.6	158.0	204.6	236.4	244.9
82.5°	83.8	128.3	174.9	207.8	217.3
85°	56.2	100.7	148.4	180.2	190.8
87.5°	35.0	78.5	125.1	155.9	165.4
90°	20.1	73.7	127.4	164.2	174.8
92.5°	31.2	66.2	120.0	155.8	164.3
95°	69.8	70.2	114.6	149.4	159.9
97.5°	119.7	172.9	109.3	142.0	152.5
100°	178.8	224.6	125.4	136.7	145.1
102.5°	246.0	281.5	334.0	132.3	140.8
105°	316.1	343.4	387.8	423.5	395.3
107.5°	382.3	403.5	447.7	479.3	490.8
110°	448.5	466.4	509.6	536.0	547.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	512.6	531.4	568.5	590.9	603.3
115°	578.9	591.4	624.3	649.7	657.1
117.5°	639.0	649.3	684.2	705.5	714.0
120°	699.0	706.3	735.9	759.2	765.6
122.5°	756.0	758.1	788.7	810.9	816.4
125°	808.9	812.0	836.4	859.6	867.0
127.5°	860.9	860.9	887.2	905.3	911.6
130°	909.8	909.7	929.7	949.9	956.2
132.5°	955.6	956.5	973.3	992.4	997.7
135°	1000.3	999.3	1010.8	1029.8	1038.3
137.5°	1041.1	1040.1	1049.4	1067.3	1071.6
140°	1080.8	1081.9	1084.9	1101.8	1108.1
142.5°	1115.5	1119.5	1119.5	1133.2	1137.4
145°	1152.1	1154.1	1154.1	1161.5	1167.8
147.5°	1180.7	1185.7	1184.7	1186.8	1192.0
150°	1212.2	1215.2	1214.2	1214.2	1215.2
152.5°	1237.6	1240.7	1238.6	1240.7	1239.7
155°	1262.1	1263.1	1260.0	1264.1	1261.1
157.5°	1283.5	1283.5	1279.4	1284.5	1279.4
160°	1301.8	1298.7	1297.7	1303.8	1297.7
162.5°	1318.1	1314.0	1313.0	1319.1	1312.0
165°	1331.3	1326.2	1326.2	1334.4	1325.2
167.5°	1342.5	1337.4	1336.4	1345.6	1335.4
170°	1351.7	1345.6	1346.6	1354.8	1344.6
172.5°	1357.8	1351.7	1352.7	1360.9	1349.7
175°	1361.9	1355.8	1356.8	1366.0	1353.7
177.5°	1365.0	1357.8	1359.9	1368.0	1355.8
180°	1361.9	1361.9	1361.9	1361.9	1361.9

(END OF REPORT)