

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: P1031849

Luminaire Tested: S123DIW-B775D1030UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031849
REPORT IS A COMBINATION OF REPORTS P991873 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D1030UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

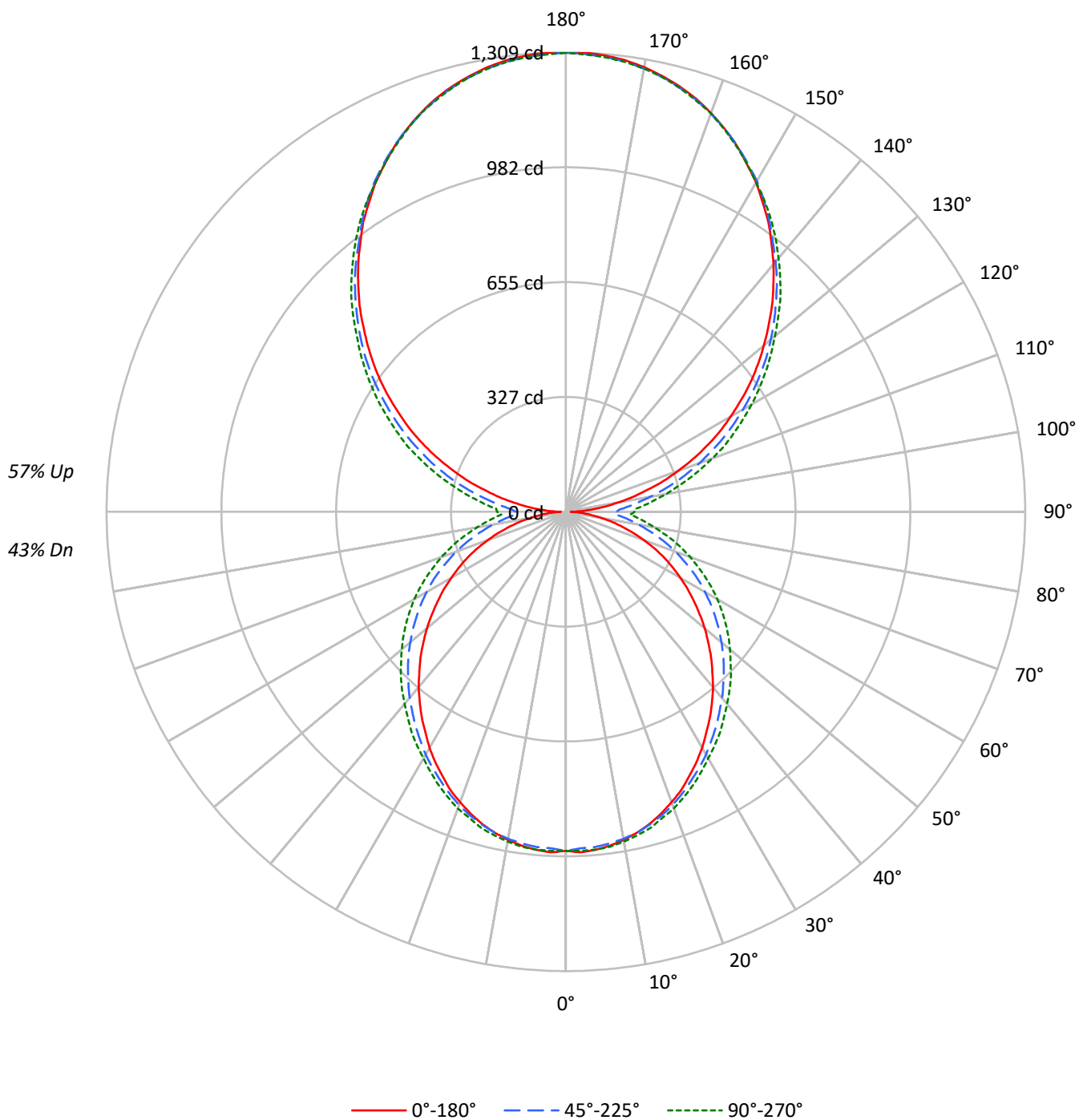
Lumens per Lamp: N/A
Luminaire Lumens: 6874.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	91	86	83	87	83	79	76	68	66	63	55	53	52	43	41	40
2	86	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	33	30	28
4	72	61	53	46	65	56	49	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	21
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.3
10°-20°	261.3	3.8
20°-30°	390.7	5.7
30°-40°	466.5	6.8
40°-50°	488.1	7.1
50°-60°	458.0	6.7
60°-70°	382.6	5.6
70°-80°	273.6	4.0
80°-90°	165.6	2.4
90°-100°	186.5	2.7
100°-110°	330.0	4.8
110°-120°	484.1	7.0
120°-130°	599.4	8.7
130°-140°	654.4	9.5
140°-150°	633.4	9.2
150°-160°	531.0	7.7
160°-170°	353.5	5.1
170°-180°	123.8	1.8
0°-30°	743.6	10.8
0°-40°	1210.1	17.6
0°-60°	2156.2	31.4
0°-90°	2977.9	43.3
90°-120°	1000.6	14.6
90°-150°	2887.8	42.0
90°-180°	3896.0	56.7
0°-180°	6874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	15	77	144	184	196	14
95°	72	120	180	217	227	76
105°	240	267	321	351	362	256
115°	442	458	494	520	527	438
125°	642	645	674	692	695	573
135°	831	836	847	862	865	641
145°	1007	1008	1011	1018	1018	629
155°	1152	1152	1153	1157	1150	530
165°	1255	1252	1252	1258	1250	354
175°	1305	1301	1301	1307	1300	124
180°	1308	1308	1308	1308	1308	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	14.7	76.6	143.6	183.5	196.0
92.5°	43.4	94.9	153.7	191.4	198.9
95°	72.2	120.4	180.2	216.9	227.4
97.5°	110.2	153.2	208.9	245.6	255.1
100°	149.2	189.1	242.6	276.2	288.8
102.5°	194.4	227.0	281.5	314.0	323.5
105°	239.6	266.9	321.4	350.9	362.4
107.5°	292.0	315.1	362.4	393.8	402.3
110°	340.2	361.3	405.4	436.9	443.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	391.6	407.3	447.3	478.9	488.3
115°	442.0	457.7	493.5	519.7	527.2
117.5°	494.4	503.8	537.6	562.8	568.1
120°	541.6	553.0	582.6	605.8	611.1
122.5°	591.9	598.1	628.7	648.8	653.1
125°	642.3	645.4	673.8	691.8	695.0
127.5°	689.6	694.6	718.9	733.8	737.0
130°	736.8	744.0	762.0	777.9	777.0
132.5°	783.0	791.2	805.0	818.7	821.0
135°	831.3	836.5	846.9	861.8	865.0
137.5°	875.5	879.6	890.0	901.8	903.9
140°	920.7	925.8	930.0	944.7	942.9
142.5°	962.8	966.9	968.9	981.6	981.7
145°	1007.0	1008.0	1011.1	1018.4	1018.5
147.5°	1043.9	1048.0	1051.1	1054.3	1052.4
150°	1084.0	1086.1	1088.1	1088.1	1084.1
152.5°	1116.9	1120.0	1121.0	1123.1	1117.9
155°	1151.8	1151.8	1152.8	1157.0	1149.8
157.5°	1181.6	1180.6	1181.6	1185.7	1179.6
160°	1209.4	1207.3	1207.3	1212.4	1208.3
162.5°	1234.0	1230.9	1232.0	1237.1	1229.9
165°	1254.6	1251.5	1251.5	1257.7	1250.5
167.5°	1272.0	1267.9	1269.0	1275.1	1269.0
170°	1286.4	1282.3	1282.3	1289.5	1282.3
172.5°	1297.7	1293.6	1293.6	1299.8	1292.6
175°	1304.9	1300.8	1300.8	1307.0	1299.8
177.5°	1309.0	1304.9	1304.9	1311.1	1303.9
180°	1308.0	1308.0	1308.0	1308.0	1308.0

(END OF REPORT)