

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: P1032458

Luminaire Tested: S123RDIW-B775D755UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032458
REPORT IS A COMBINATION OF REPORTS P994810 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D755UB40-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

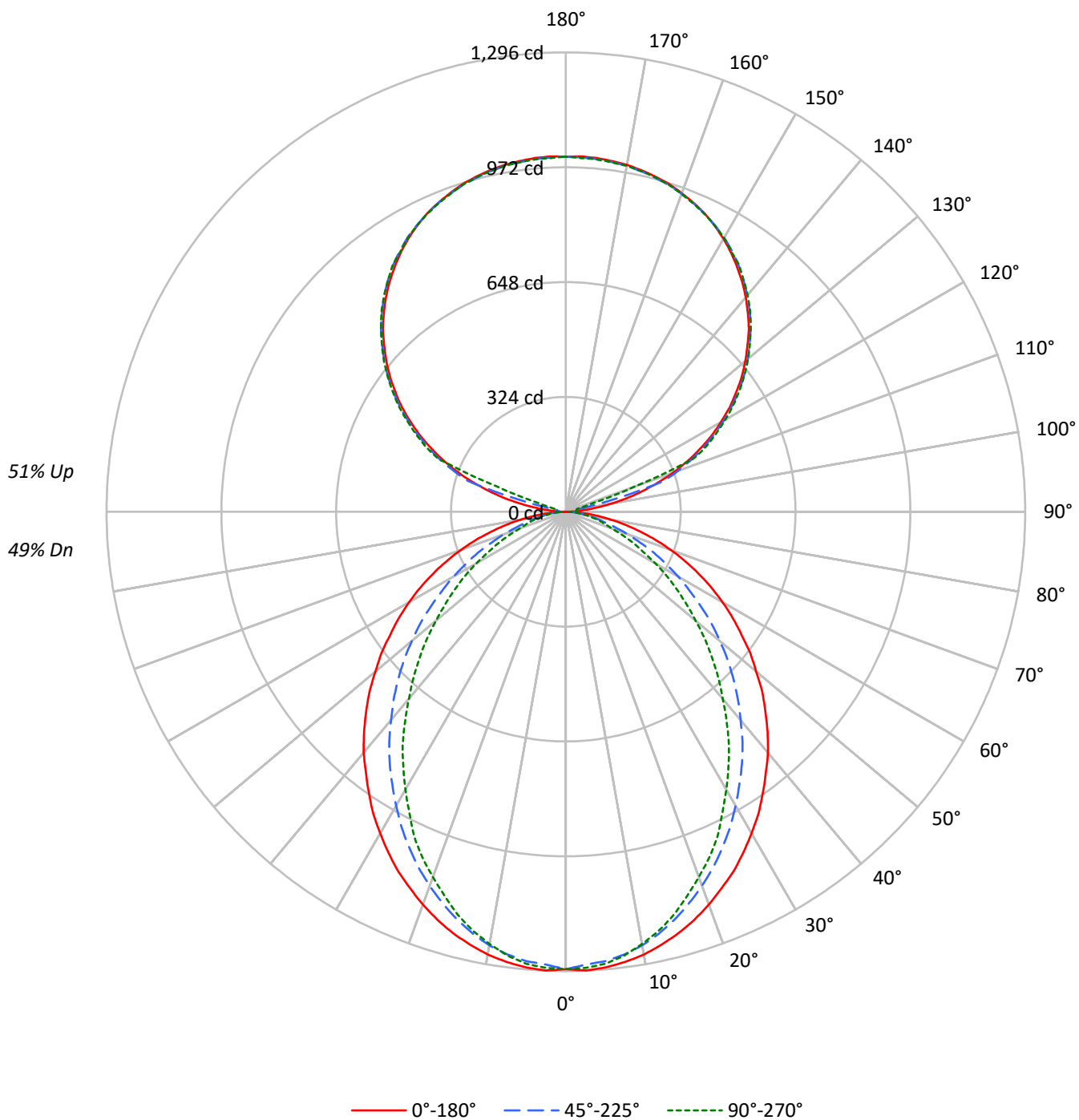
Lumens per Lamp: N/A
Luminaire Lumens: 5971.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	94	90	87	90	86	83	80	73	71	69	61	59	58	49	48	47
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30
5	69	57	49	44	63	53	46	41	46	40	36	38	34	31	32	29	26
6	63	52	44	38	58	48	41	36	41	36	32	35	31	27	29	26	23
7	59	47	39	33	54	43	36	32	37	32	28	32	27	24	26	23	21
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	30	25	31	26	22	27	23	20	22	19	17
10	47	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13889	13889	13889
5°	13911	13397	13361
10°	13802	12894	12640
15°	13622	12271	11849
20°	13388	11594	10966
25°	13145	10890	10129
30°	12834	10141	9140
35°	12514	9407	8239
40°	12213	8608	7244
45°	11827	7827	6349
50°	11401	6993	5423
55°	10960	6101	4574
60°	10538	5186	3713
65°	9993	4247	2898
70°	9306	3212	2071
75°	8319	2174	1642
80°	7101	1511	1151
85°	5331	816	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	2.0
10°-20°	337.4	5.7
20°-30°	485.8	8.1
30°-40°	547.1	9.2
40°-50°	523.3	8.8
50°-60°	428.4	7.2
60°-70°	288.8	4.8
70°-80°	144.9	2.4
80°-90°	39.9	0.7
90°-100°	35.3	0.6
100°-110°	170.8	2.9
110°-120°	418.5	7.0
120°-130°	531.3	8.9
130°-140°	567.6	9.5
140°-150°	530.8	8.9
150°-160°	428.1	7.2
160°-170°	276.3	4.6
170°-180°	95.2	1.6
0°-30°	944.5	15.8
0°-40°	1491.7	25.0
0°-60°	2443.4	40.9
0°-90°	2917.0	48.9
90°-120°	624.7	10.5
90°-150°	2254.4	37.8
90°-180°	3054.0	51.1
0°-180°	5971.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1290	1285	1272	1282	1280	122
15°	1231	1219	1190	1185	1177	347
25°	1120	1094	1045	1023	1012	515
35°	969	931	866	822	803	607
45°	796	749	669	609	584	615
55°	605	554	465	404	383	542
65°	413	356	274	223	211	409
75°	219	168	111	100	98	233
85°	56	32	29	27	27	61
90°	1	8	18	21	22	6
95°	45	15	23	28	28	54
105°	222	230	163	31	33	235
115°	416	420	427	435	438	411
125°	586	592	595	597	598	524
135°	730	735	738	740	738	562
145°	842	848	849	851	851	527
155°	928	927	927	931	927	428
165°	979	976	976	982	976	277
175°	1002	998	999	1004	998	95
180°	1002	1002	1002	1002	1002	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.3	1290.3	1290.3	1290.3	1290.3
2.5°	1295.5	1291.3	1278.8	1290.3	1288.2
5°	1290.3	1285.1	1272.5	1281.9	1279.8
7.5°	1280.9	1275.6	1259.9	1266.2	1263.1
10°	1268.3	1261.0	1242.2	1243.2	1238.0
12.5°	1250.5	1242.2	1218.1	1217.0	1210.8
15°	1230.6	1219.1	1189.8	1184.6	1177.3
17.5°	1206.6	1194.0	1157.4	1146.9	1136.5
20°	1179.4	1162.6	1122.9	1109.3	1096.7
22.5°	1149.0	1129.1	1086.2	1068.4	1056.9
25°	1119.7	1093.6	1045.4	1023.4	1011.9
27.5°	1084.1	1055.9	1003.6	974.3	956.5
30°	1047.5	1016.1	957.5	921.9	905.2
32.5°	1010.9	974.3	911.5	871.7	853.9
35°	969.0	931.4	866.5	821.5	802.6
37.5°	927.2	886.4	818.3	768.1	745.1
40°	887.4	841.4	767.1	712.6	688.6
42.5°	842.4	796.4	718.9	658.2	637.3
45°	796.4	749.3	668.7	609.0	583.9
47.5°	751.4	699.0	619.5	554.6	532.7
50°	701.1	651.9	567.2	502.3	478.2
52.5°	656.1	601.7	518.0	450.0	429.1
55°	604.9	553.6	464.6	403.9	383.0
57.5°	558.8	503.4	413.4	355.8	338.0
60°	510.7	453.1	366.3	309.8	292.0
62.5°	462.5	405.0	318.1	265.8	247.0
65°	413.4	355.8	274.2	222.9	211.4
67.5°	364.2	305.6	226.0	187.3	174.8
70°	316.0	259.5	186.3	149.6	138.1
72.5°	267.9	212.4	147.6	119.3	116.2
75°	218.7	168.5	110.9	100.5	98.4
77.5°	173.7	127.7	86.9	80.6	78.5
80°	130.8	87.9	65.9	62.8	60.7
82.5°	90.0	54.4	47.1	44.0	44.0
85°	55.5	32.4	29.3	27.2	27.2
87.5°	25.1	13.6	13.6	12.6	11.5
90°	0.7	8.2	17.9	20.8	22.3
92.5°	17.1	12.7	19.4	24.6	25.3
95°	45.4	14.9	23.1	28.3	28.3
97.5°	82.6	61.8	23.8	29.8	30.5
100°	125.8	140.7	24.6	30.5	31.3
102.5°	174.9	184.6	55.1	30.5	32.0
105°	221.8	230.0	163.0	31.3	32.7
107.5°	271.7	278.4	289.5	174.9	77.4
110°	321.5	327.5	335.7	311.1	204.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.2	374.4	382.6	389.2	387.8
115°	416.0	420.5	427.2	434.6	437.6
117.5°	462.2	467.4	471.1	477.1	477.8
120°	504.6	511.3	513.5	519.5	519.5
122.5°	547.8	553.0	556.0	559.7	560.4
125°	586.5	592.4	595.4	596.9	598.4
127.5°	625.2	631.1	634.9	637.1	635.6
130°	660.9	666.9	669.8	672.8	671.3
132.5°	695.1	701.1	703.3	706.3	704.1
135°	730.1	734.6	737.6	739.8	737.6
137.5°	759.9	765.8	767.3	771.1	769.6
140°	789.7	794.1	796.4	799.3	797.8
142.5°	817.2	821.7	823.9	826.1	823.9
145°	842.5	847.7	849.2	850.7	850.7
147.5°	867.1	870.8	872.3	873.8	870.0
150°	889.4	891.6	893.1	894.6	892.4
152.5°	909.5	910.2	911.0	914.0	910.2
155°	928.1	926.6	927.3	931.1	926.6
157.5°	943.0	943.0	942.2	946.7	940.7
160°	956.4	955.6	954.9	959.4	954.1
162.5°	969.0	966.8	966.1	971.3	966.8
165°	978.7	976.5	975.7	981.7	976.5
167.5°	986.9	983.9	983.9	989.9	983.9
170°	993.6	990.6	990.6	996.6	990.6
172.5°	998.1	994.3	995.1	1001.0	994.3
175°	1001.8	998.1	998.8	1004.0	998.1
177.5°	1003.3	999.5	1000.3	1006.2	998.8
180°	1001.8	1001.8	1001.8	1001.8	1001.8

(END OF REPORT)