

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: P1031965

Luminaire Tested: S123DIW-B775D755UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031965
REPORT IS A COMBINATION OF REPORTS P992140 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D755UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

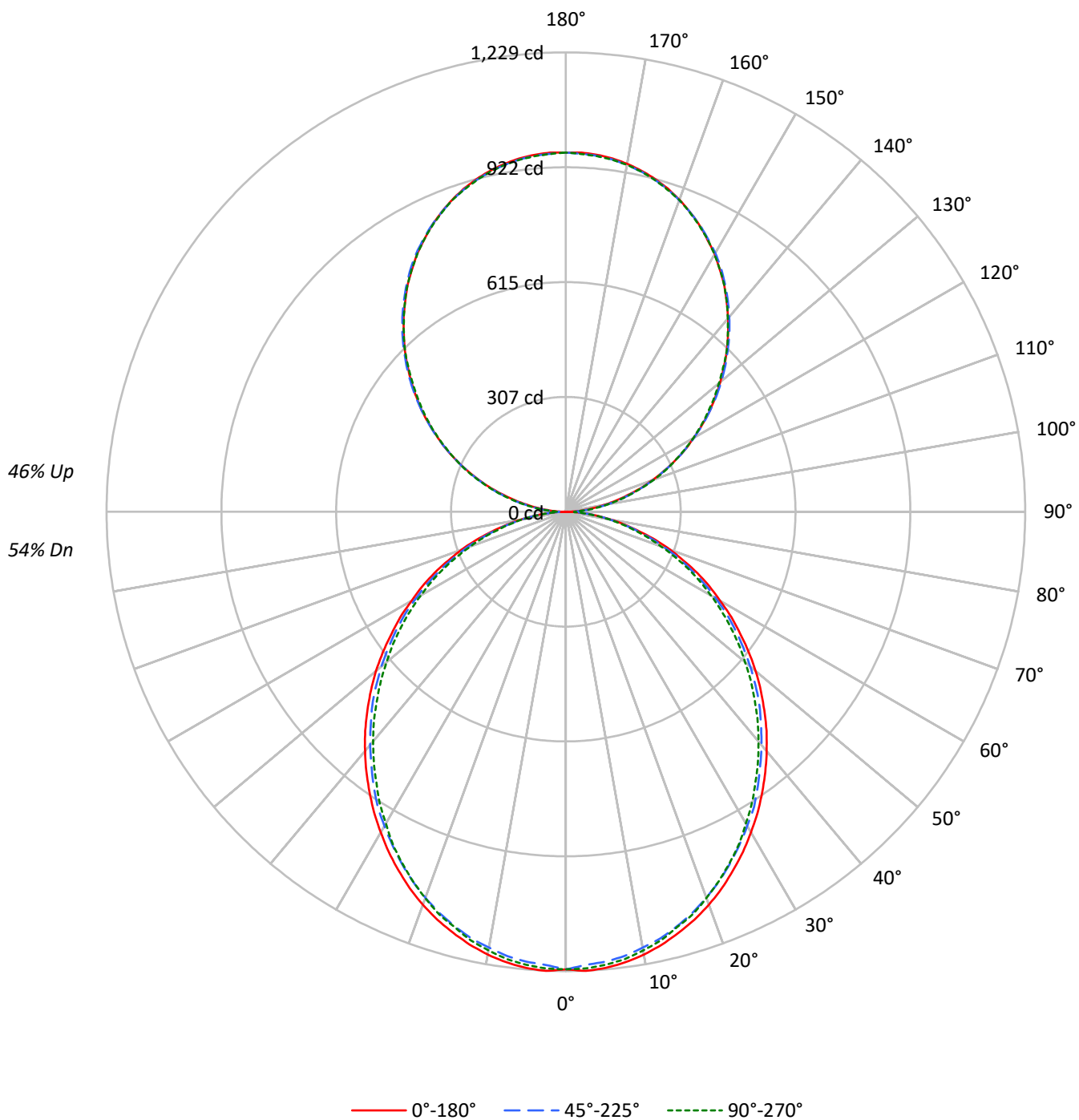
Lumens per Lamp: N/A
Luminaire Lumens: 5851.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	67	61	56	58	53	49	49	46	43	41	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	40	46	40	36	40	35	32	33	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	24	28	24	21
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13177	13177	13177
5°	13209	12722	12703
10°	13092	12292	12165
15°	12910	11844	11580
20°	12701	11347	10999
25°	12431	10822	10378
30°	12136	10279	9725
35°	11827	9725	9076
40°	11503	9142	8438
45°	11146	8575	7771
50°	10783	7943	7102
55°	10319	7284	6424
60°	9838	6557	5702
65°	9389	5771	4949
70°	8740	4899	4072
75°	7809	3879	3161
80°	6743	2725	2236
85°	5254	1465	1119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11146 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	2.0
10°-20°	325.9	5.6
20°-30°	481.3	8.2
30°-40°	562.1	9.6
40°-50°	565.1	9.7
50°-60°	496.4	8.5
60°-70°	369.7	6.3
70°-80°	210.4	3.6
80°-90°	61.8	1.1
90°-100°	61.9	1.1
100°-110°	187.3	3.2
110°-120°	318.8	5.4
120°-130°	419.4	7.2
130°-140°	471.4	8.1
140°-150°	463.4	7.9
150°-160°	390.2	6.7
160°-170°	259.7	4.4
170°-180°	91.0	1.6
0°-30°	922.6	15.8
0°-40°	1484.6	25.4
0°-60°	2546.1	43.5
0°-90°	3188.0	54.5
90°-120°	567.9	9.7
90°-150°	1922.1	32.9
90°-180°	2663.0	45.5
0°-180°	5851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1225	1220	1208	1219	1217	116
15°	1166	1162	1148	1157	1150	329
25°	1059	1053	1039	1040	1037	488
35°	916	910	896	890	884	573
45°	750	746	733	720	715	579
55°	570	568	555	543	538	510
65°	388	383	373	364	361	383
75°	205	201	198	193	190	219
85°	55	53	53	50	50	59
90°	1	8	18	21	23	7
95°	44	50	56	59	59	49
105°	170	171	178	178	180	182
115°	321	323	322	322	322	318
125°	470	472	470	467	464	419
135°	609	614	613	610	608	469
145°	739	741	743	742	739	462
155°	846	846	847	850	845	390
165°	922	920	920	924	919	260
175°	959	956	956	960	955	91
180°	961	961	961	961	961	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.2	1224.2	1224.2	1224.2	1224.2
2.5°	1229.4	1225.2	1213.7	1224.2	1223.1
5°	1225.2	1220.0	1208.4	1218.9	1216.8
7.5°	1215.8	1210.5	1198.9	1208.4	1207.3
10°	1203.1	1197.9	1184.2	1193.7	1191.5
12.5°	1186.3	1182.1	1169.4	1175.8	1174.7
15°	1166.3	1162.1	1148.4	1156.8	1150.5
17.5°	1144.2	1138.9	1125.2	1131.6	1129.4
20°	1118.9	1112.6	1098.9	1103.1	1100.0
22.5°	1090.5	1084.2	1070.5	1073.7	1069.4
25°	1058.9	1052.6	1038.9	1040.0	1036.8
27.5°	1026.3	1020.0	1005.2	1006.3	1003.1
30°	990.5	985.2	970.5	970.5	963.1
32.5°	954.7	947.3	936.8	929.5	926.3
35°	915.8	909.5	895.8	889.5	884.2
37.5°	876.8	868.4	854.7	847.3	844.2
40°	835.8	829.5	814.7	806.3	802.1
42.5°	794.7	787.3	772.6	764.2	760.0
45°	750.5	746.3	732.6	720.0	714.7
47.5°	707.4	701.0	688.4	675.8	671.6
50°	663.1	657.9	644.2	632.6	626.3
52.5°	616.8	613.7	598.9	589.5	583.1
55°	569.5	568.4	554.7	543.1	537.9
57.5°	525.3	521.0	510.5	500.0	493.7
60°	476.8	475.8	463.1	453.7	448.4
62.5°	433.7	430.5	417.9	408.4	405.3
65°	388.4	383.1	372.6	364.2	361.0
67.5°	340.0	335.8	327.4	320.0	315.8
70°	296.8	290.5	284.2	276.8	271.6
72.5°	251.6	247.4	240.0	233.7	231.6
75°	205.3	201.0	197.9	192.6	189.5
77.5°	164.2	162.1	157.9	153.7	153.7
80°	124.2	121.0	118.9	117.9	117.9
82.5°	85.3	85.3	85.3	83.2	82.1
85°	54.7	52.6	52.6	50.5	50.5
87.5°	27.4	24.2	23.2	22.1	22.1
90°	0.8	8.3	18.1	21.1	22.6
92.5°	22.6	27.2	31.7	34.0	32.5
95°	44.5	49.8	55.9	58.9	58.9
97.5°	73.2	77.0	81.5	85.3	84.6
100°	102.7	107.2	111.0	113.2	114.8
102.5°	136.6	138.9	144.2	146.5	145.7
105°	169.9	171.4	178.2	178.2	179.7
107.5°	209.1	209.9	212.9	215.2	214.4
110°	245.4	246.9	248.4	251.4	249.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.1	283.9	283.9	287.6	287.6
115°	320.9	323.1	321.6	322.4	321.6
117.5°	359.4	360.1	358.6	358.6	356.3
120°	394.8	399.4	395.6	394.8	393.3
122.5°	431.8	434.9	433.4	431.1	428.8
125°	469.6	471.9	470.3	467.3	464.3
127.5°	504.3	508.8	507.3	502.8	499.8
130°	539.0	545.1	542.8	539.8	534.5
132.5°	573.8	579.8	578.3	574.5	570.8
135°	609.3	613.8	613.0	610.0	608.5
137.5°	641.7	645.5	647.8	644.0	641.7
140°	675.7	679.5	680.2	679.5	674.2
142.5°	706.7	710.4	711.9	711.2	707.4
145°	739.1	740.6	742.9	742.1	739.1
147.5°	767.0	770.1	772.3	772.3	767.8
150°	796.5	798.0	799.5	799.5	795.0
152.5°	820.7	822.9	823.7	825.2	821.4
155°	846.3	846.3	847.1	850.1	844.8
157.5°	868.2	867.5	868.2	871.2	866.7
160°	888.6	887.1	887.1	890.9	887.8
162.5°	906.7	904.5	905.2	909.0	903.7
165°	921.8	919.6	919.6	924.1	918.8
167.5°	934.7	931.6	932.4	936.9	932.4
170°	945.2	942.2	942.2	947.5	942.2
172.5°	953.5	950.5	950.5	955.0	949.8
175°	958.8	955.8	955.8	960.3	955.0
177.5°	961.8	958.8	958.8	963.3	958.1
180°	961.1	961.1	961.1	961.1	961.1

(END OF REPORT)