

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: P1031531

Luminaire Tested: S123DIW-B1165D755UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031531
REPORT IS A COMBINATION OF REPORTS P991147 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D755UB30-4F0-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

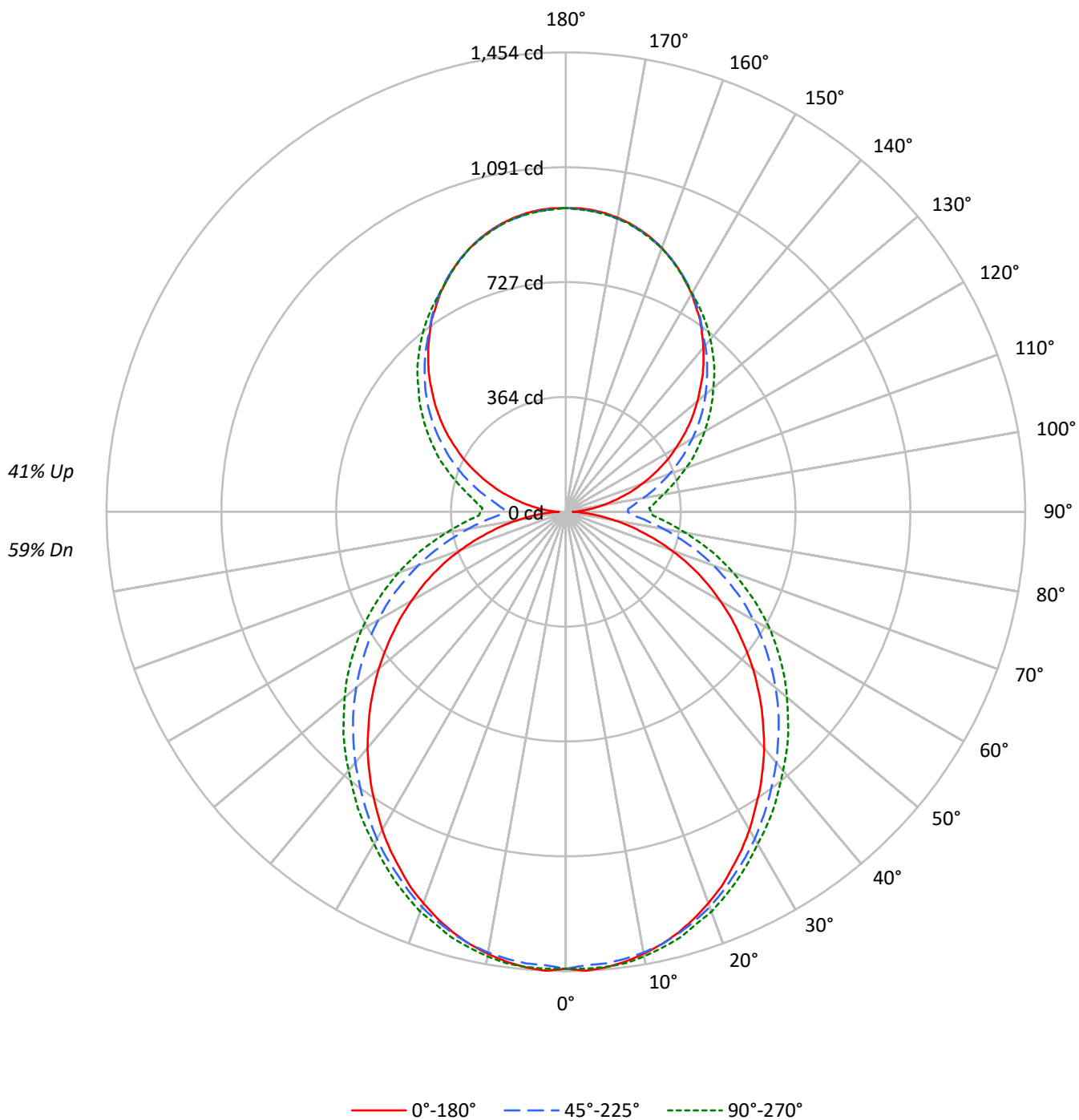
Lumens per Lamp: N/A
Luminaire Lumens: 7525.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59		
1	99	94	89	85	92	87	84	80	76	73	70	65	63	61	55	54	52	47		
2	89	81	74	69	83	76	70	65	66	61	57	56	53	50	48	45	43	39		
3	81	71	63	57	75	66	59	54	58	52	47	49	45	42	42	39	36	32		
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27		
5	68	56	47	41	63	52	44	39	45	39	34	39	34	30	33	30	27	23		
6	63	50	41	35	58	47	39	33	41	35	30	35	30	27	30	26	23	20		
7	58	45	37	31	54	42	35	29	37	31	26	32	27	23	28	24	21	18		
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18	16		
9	50	37	29	24	47	35	28	23	31	25	21	27	22	19	23	19	17	14		
10	47	34	27	22	44	32	25	21	29	23	19	25	20	17	22	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.8
10°-20°	391.1	5.2
20°-30°	584.8	7.8
30°-40°	698.2	9.3
40°-50°	730.6	9.7
50°-60°	685.6	9.1
60°-70°	572.6	7.6
70°-80°	409.5	5.4
80°-90°	245.7	3.3
90°-100°	215.0	2.9
100°-110°	299.8	4.0
110°-120°	393.9	5.2
120°-130°	462.3	6.1
130°-140°	490.6	6.5
140°-150°	467.4	6.2
150°-160°	390.2	5.2
160°-170°	259.7	3.5
170°-180°	91.0	1.2
0°-30°	1113.0	14.8
0°-40°	1811.3	24.1
0°-60°	3227.4	42.9
0°-90°	4455.1	59.2
90°-120°	908.7	12.1
90°-150°	2329.0	31.0
90°-180°	3070.0	40.8
0°-180°	7525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	21	106	196	253	270	18
95°	62	129	212	264	279	63
105°	182	222	296	340	356	195
115°	329	350	405	444	456	326
125°	474	477	521	551	559	424
135°	612	615	632	657	664	472
145°	741	741	743	755	758	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°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	21.3	106.0	196.1	252.7	269.9
92.5°	41.5	113.8	197.1	251.4	264.1
95°	61.8	128.6	211.9	263.7	279.4
97.5°	89.0	149.5	228.0	279.1	294.1
100°	116.9	171.8	248.0	295.9	313.3
102.5°	149.2	195.6	271.8	318.2	333.2
105°	182.5	221.8	296.3	340.5	356.1
107.5°	220.1	254.0	321.6	366.4	379.8
110°	254.9	284.7	349.2	393.2	404.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	292.6	315.4	375.3	418.3	432.5
115°	328.8	349.9	405.1	443.7	455.5
117.5°	367.3	380.6	432.6	470.4	480.7
120°	401.1	413.6	461.8	497.2	506.7
122.5°	438.1	444.4	491.7	524.0	532.8
125°	474.3	476.6	520.7	550.8	558.8
127.5°	509.0	512.0	549.8	576.8	584.9
130°	543.7	548.3	577.5	604.4	608.5
132.5°	577.0	583.0	605.1	629.6	637.0
135°	612.5	615.4	631.9	657.3	663.6
137.5°	644.9	647.1	660.4	681.8	687.4
140°	677.3	681.1	686.5	709.4	712.0
142.5°	708.3	710.4	711.9	731.7	735.8
145°	740.7	740.6	742.9	754.7	758.0
147.5°	767.0	770.1	772.3	777.0	778.8
150°	796.5	798.0	799.5	799.5	798.2
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)