

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: P1010995

Luminaire Tested: S123RDIP-B775D365UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010995
REPORT IS A COMBINATION OF REPORTS P993611 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D365UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

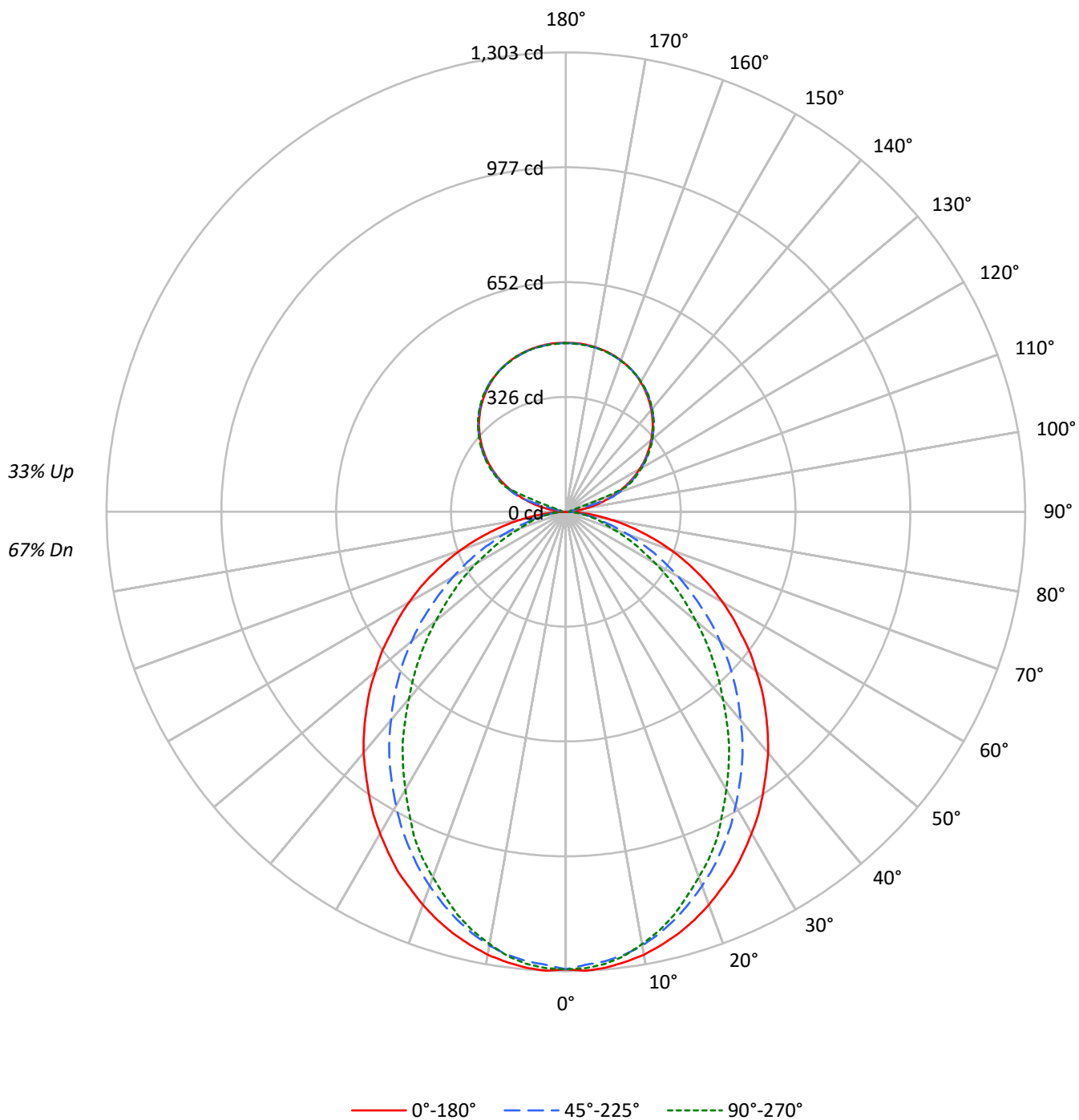
Lumens per Lamp: N/A
Luminaire Lumens: 4392.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67		
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	61	57		
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49		
3	85	76	69	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42		
4	78	68	60	54	74	64	57	51	57	52	47	51	47	43	46	42	39	36		
5	72	60	52	46	68	57	50	44	52	46	41	46	41	38	41	37	34	32		
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	30	28		
7	62	49	41	36	58	47	40	34	43	36	32	38	33	30	34	30	27	25		
8	57	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25	22		
9	54	41	34	29	51	39	32	28	36	30	26	33	28	24	29	25	22	20		
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13969	13969	13969
5°	13992	13475	13439
10°	13882	12969	12713
15°	13702	12343	11918
20°	13465	11661	11030
25°	13221	10953	10188
30°	12909	10201	9194
35°	12588	9461	8287
40°	12284	8657	7286
45°	11896	7873	6386
50°	11467	7034	5455
55°	11024	6136	4601
60°	10600	5216	3735
65°	10051	4272	2915
70°	9362	3230	2083
75°	8369	2188	1650
80°	7145	1520	1157
85°	5360	821	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11896 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	2.8
10°-20°	339.4	7.7
20°-30°	488.7	11.1
30°-40°	550.3	12.5
40°-50°	526.4	12.0
50°-60°	430.9	9.8
60°-70°	290.5	6.6
70°-80°	145.7	3.3
80°-90°	39.1	0.9
90°-100°	16.9	0.4
100°-110°	81.6	1.9
110°-120°	200.0	4.6
120°-130°	253.8	5.8
130°-140°	271.2	6.2
140°-150°	253.6	5.8
150°-160°	204.5	4.7
160°-170°	132.0	3.0
170°-180°	45.5	1.0
0°-30°	950.1	21.6
0°-40°	1500.4	34.2
0°-60°	2457.7	56.0
0°-90°	2933.0	66.8
90°-120°	298.5	6.8
90°-150°	1077.0	24.5
90°-180°	1459.0	33.2
0°-180°	4392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1298	1293	1280	1289	1287	123
15°	1238	1226	1197	1192	1184	349
25°	1126	1100	1052	1029	1018	518
35°	975	937	872	826	807	610
45°	801	754	673	613	587	618
55°	608	557	467	406	385	546
65°	416	358	276	224	213	411
75°	220	170	112	101	99	234
85°	56	33	30	27	27	61
90°	0	4	8	10	11	5
95°	22	7	11	14	14	26
105°	106	110	78	15	16	112
115°	199	201	204	208	209	196
125°	280	283	284	285	286	250
135°	349	351	352	353	352	269
145°	402	405	406	406	406	252
155°	443	443	443	445	443	204
165°	468	466	466	469	466	132
175°	479	477	477	480	477	46
180°	479	479	479	479	479	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1303.1	1298.9	1286.2	1297.8	1295.7
5°	1297.8	1292.6	1279.9	1289.4	1287.3
7.5°	1288.3	1283.1	1267.3	1273.6	1270.5
10°	1275.7	1268.3	1249.4	1250.5	1245.2
12.5°	1257.8	1249.4	1225.2	1224.1	1217.8
15°	1237.8	1226.2	1196.8	1191.5	1184.1
17.5°	1213.6	1201.0	1164.1	1153.6	1143.1
20°	1186.2	1169.4	1129.4	1115.7	1103.1
22.5°	1155.7	1135.7	1092.6	1074.7	1063.1
25°	1126.2	1099.9	1051.5	1029.4	1017.8
27.5°	1090.5	1062.0	1009.4	979.9	962.0
30°	1053.6	1022.0	963.1	927.3	910.5
32.5°	1016.8	979.9	916.8	876.8	858.9
35°	974.7	936.8	871.5	826.3	807.3
37.5°	932.6	891.5	823.1	772.6	749.4
40°	892.6	846.3	771.5	716.8	692.6
42.5°	847.3	801.0	723.1	662.1	641.0
45°	801.0	753.6	672.6	612.6	587.3
47.5°	755.7	703.1	623.1	557.9	535.8
50°	705.2	655.8	570.5	505.2	481.0
52.5°	660.0	605.2	521.0	452.6	431.6
55°	608.4	556.8	467.3	406.3	385.2
57.5°	562.1	506.3	415.8	357.9	340.0
60°	513.7	455.8	368.4	311.6	293.7
62.5°	465.2	407.3	320.0	267.4	248.4
65°	415.8	357.9	275.8	224.2	212.6
67.5°	366.3	307.4	227.4	188.4	175.8
70°	317.9	261.0	187.4	150.5	138.9
72.5°	269.5	213.7	148.4	120.0	116.8
75°	220.0	169.5	111.6	101.0	98.9
77.5°	174.7	128.4	87.4	81.0	78.9
80°	131.6	88.4	66.3	63.2	61.0
82.5°	90.5	54.7	47.4	44.2	44.2
85°	55.8	32.6	29.5	27.4	27.4
87.5°	25.3	13.7	13.7	12.6	11.6
90°	0.4	3.9	8.5	10.0	10.7
92.5°	8.2	6.0	9.2	11.7	12.1
95°	21.7	7.1	11.0	13.5	13.5
97.5°	39.5	29.5	11.4	14.2	14.6
100°	60.1	67.2	11.7	14.6	14.9
102.5°	83.6	88.2	26.3	14.6	15.3
105°	106.0	109.9	77.9	14.9	15.6
107.5°	129.8	133.0	138.3	83.6	37.0
110°	153.6	156.5	160.4	148.6	97.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	178.9	182.8	186.0	185.3
115°	198.8	200.9	204.1	207.7	209.1
117.5°	220.8	223.3	225.1	227.9	228.3
120°	241.1	244.3	245.3	248.2	248.2
122.5°	261.7	264.2	265.6	267.4	267.7
125°	280.2	283.0	284.5	285.2	285.9
127.5°	298.7	301.5	303.3	304.4	303.7
130°	315.7	318.6	320.0	321.4	320.7
132.5°	332.1	334.9	336.0	337.4	336.4
135°	348.8	350.9	352.4	353.4	352.4
137.5°	363.0	365.9	366.6	368.4	367.7
140°	377.3	379.4	380.5	381.9	381.2
142.5°	390.4	392.5	393.6	394.7	393.6
145°	402.5	405.0	405.7	406.4	406.4
147.5°	414.2	416.0	416.7	417.4	415.7
150°	424.9	426.0	426.7	427.4	426.3
152.5°	434.5	434.9	435.2	436.6	434.9
155°	443.4	442.7	443.0	444.8	442.7
157.5°	450.5	450.5	450.2	452.3	449.4
160°	456.9	456.6	456.2	458.3	455.8
162.5°	463.0	461.9	461.5	464.0	461.9
165°	467.6	466.5	466.2	469.0	466.5
167.5°	471.5	470.1	470.1	472.9	470.1
170°	474.7	473.3	473.3	476.1	473.3
172.5°	476.8	475.0	475.4	478.2	475.0
175°	478.6	476.8	477.2	479.7	476.8
177.5°	479.3	477.5	477.9	480.7	477.2
180°	478.6	478.6	478.6	478.6	478.6

(END OF REPORT)