

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: P1011007

Luminaire Tested: S123RDIP-B775D585UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011007
REPORT IS A COMBINATION OF REPORTS P993653 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D585UB2750-4F0-XX-W2A-F_4000K
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

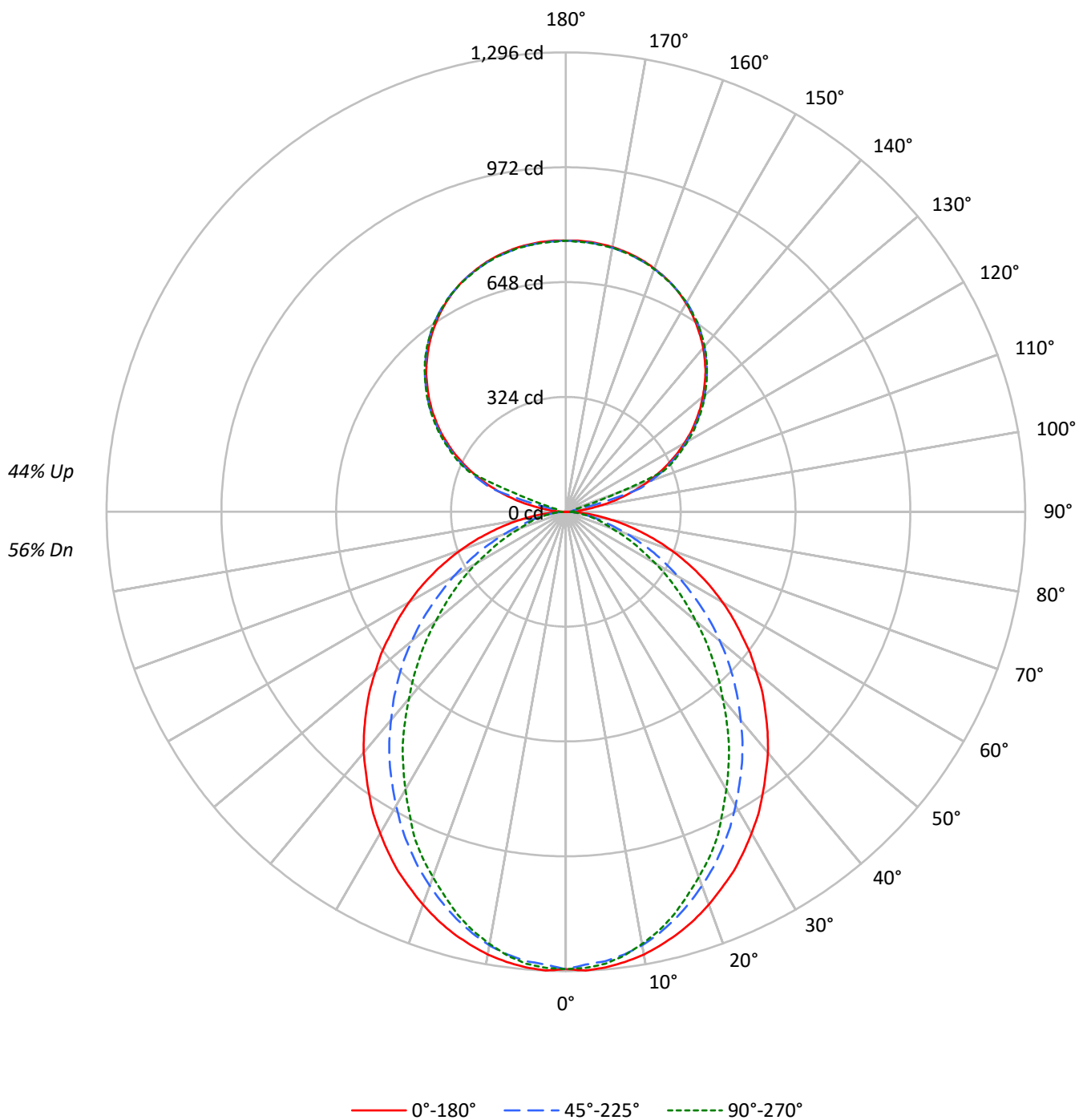
Lumens per Lamp: N/A
Luminaire Lumens: 5248.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52			48
2	91	84	78	72	84	78	73	68	67	63	60	58	55	52	49	47	45			40
3	83	74	67	61	77	69	63	57	60	55	51	51	48	45	43	41	38			35
4	76	66	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33			30
5	70	59	51	45	65	55	48	42	48	42	38	41	37	34	35	32	29			26
6	65	53	45	39	60	49	42	37	43	38	33	37	33	30	32	29	26			23
7	60	48	40	34	56	45	38	33	39	34	29	34	30	26	29	26	23			21
8	56	43	36	30	52	41	34	29	36	30	26	31	27	24	27	24	21			19
9	52	40	32	27	48	37	31	26	33	28	24	29	24	21	25	22	19			17
10	49	37	29	25	45	34	28	23	31	25	21	27	22	19	23	20	17			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	2.3
10°-20°	337.4	6.4
20°-30°	485.8	9.3
30°-40°	547.1	10.4
40°-50°	523.3	10.0
50°-60°	428.4	8.2
60°-70°	288.8	5.5
70°-80°	144.9	2.8
80°-90°	39.4	0.8
90°-100°	27.0	0.5
100°-110°	130.4	2.5
110°-120°	319.5	6.1
120°-130°	405.6	7.7
130°-140°	433.3	8.3
140°-150°	405.2	7.7
150°-160°	326.8	6.2
160°-170°	210.9	4.0
170°-180°	72.7	1.4
0°-30°	944.5	18.0
0°-40°	1491.7	28.4
0°-60°	2443.4	46.6
0°-90°	2916.5	55.6
90°-120°	476.9	9.1
90°-150°	1721.0	32.8
90°-180°	2331.0	44.4
0°-180°	5248.0	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	6	14	16	17	5
95°	35	11	18	22	22	41
105°	169	176	124	24	25	180
115°	318	321	326	332	334	314
125°	448	452	454	456	457	400
135°	557	561	563	565	563	429
145°	643	647	648	649	649	403
155°	708	707	708	711	707	326
165°	747	746	745	749	746	211
175°	765	762	762	766	762	73
180°	765	765	765	765	765	

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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°	0.6	6.2	13.6	15.9	17.0
92.5°	13.1	9.7	14.8	18.7	19.3
95°	34.7	11.4	17.6	21.6	21.6
97.5°	63.1	47.2	18.2	22.7	23.3
100°	96.0	107.4	18.7	23.3	23.9
102.5°	133.5	140.9	42.0	23.3	24.4
105°	169.3	175.6	124.4	23.9	25.0
107.5°	207.4	212.5	221.0	133.5	59.1
110°	245.5	250.0	256.2	237.5	156.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.8	285.8	292.0	297.2	296.0
115°	317.6	321.0	326.1	331.8	334.1
117.5°	352.8	356.8	359.7	364.2	364.8
120°	385.2	390.3	392.0	396.6	396.6
122.5°	418.2	422.2	424.4	427.3	427.8
125°	447.7	452.3	454.5	455.7	456.8
127.5°	477.3	481.8	484.7	486.4	485.2
130°	504.5	509.1	511.4	513.6	512.5
132.5°	530.7	535.2	536.9	539.2	537.5
135°	557.4	560.8	563.1	564.8	563.1
137.5°	580.1	584.7	585.8	588.6	587.5
140°	602.8	606.2	608.0	610.2	609.1
142.5°	623.9	627.3	629.0	630.7	629.0
145°	643.2	647.2	648.3	649.4	649.4
147.5°	661.9	664.8	665.9	667.0	664.2
150°	679.0	680.7	681.8	683.0	681.2
152.5°	694.3	694.9	695.5	697.7	694.9
155°	708.5	707.4	708.0	710.8	707.4
157.5°	719.9	719.9	719.3	722.7	718.2
160°	730.1	729.5	729.0	732.4	728.4
162.5°	739.8	738.1	737.5	741.5	738.1
165°	747.2	745.5	744.9	749.4	745.5
167.5°	753.4	751.1	751.1	755.7	751.1
170°	758.5	756.2	756.2	760.8	756.2
172.5°	761.9	759.1	759.7	764.2	759.1
175°	764.8	761.9	762.5	766.5	761.9
177.5°	765.9	763.1	763.6	768.2	762.5
180°	764.8	764.8	764.8	764.8	764.8

(END OF REPORT)