

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: P1012721

Luminaire Tested: S123RDIP-B775D1025UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012721
REPORT IS A COMBINATION OF REPORTS P993552 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D1025UB40-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

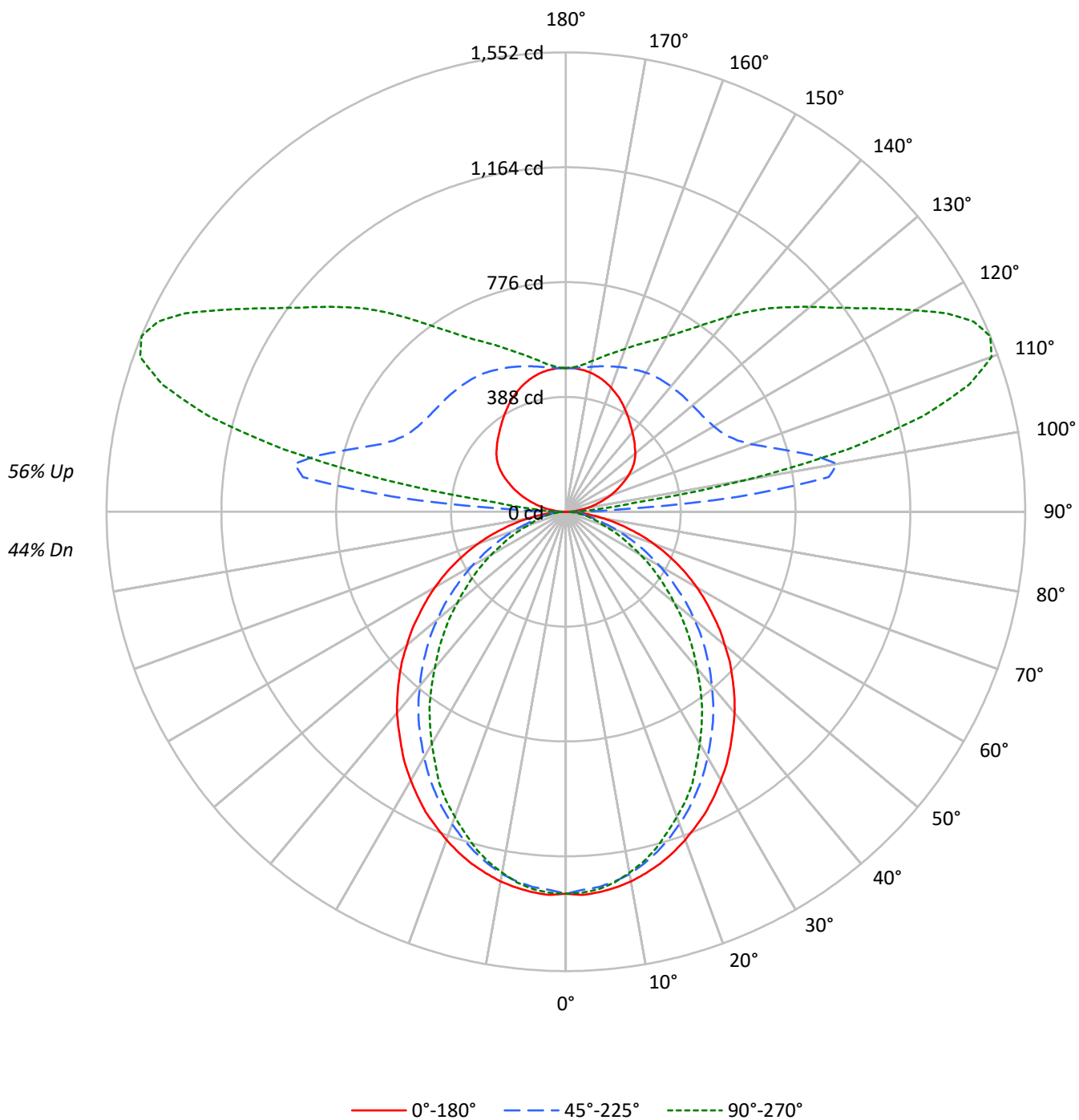
Lumens per Lamp: N/A
Luminaire Lumens: 6577.5 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	86	89	85	82	79	71	68	66	58	56	55	45	44	44
2	88	81	75	70	81	75	70	65	62	59	55	51	48	46	40	39	37
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	52	45	40	44	39	35	36	33	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	28	23	21	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	23	20	17	19	16	14

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	1.8
10°-20°	337.4	5.1
20°-30°	485.8	7.4
30°-40°	547.1	8.3
40°-50°	523.3	8.0
50°-60°	428.4	6.5
60°-70°	288.8	4.4
70°-80°	144.9	2.2
80°-90°	40.6	0.6
90°-100°	275.8	4.2
100°-110°	771.0	11.7
110°-120°	751.8	11.4
120°-130°	598.6	9.1
130°-140°	472.5	7.2
140°-150°	352.5	5.4
150°-160°	246.0	3.7
160°-170°	144.5	2.2
170°-180°	47.0	0.7
0°-30°	944.5	14.4
0°-40°	1491.7	22.7
0°-60°	2443.4	37.1
0°-90°	2917.7	44.4
90°-120°	1798.6	27.3
90°-150°	3222.4	49.0
90°-180°	3660.0	55.6
0°-180°	6577.5	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°	2	12	25	28	28	6
95°	33	109	583	170	114	35
105°	114	168	790	1382	1250	121
115°	201	251	604	1325	1520	199
125°	280	331	564	1022	1199	249
135°	328	392	556	842	972	254
145°	374	429	549	690	760	235
155°	426	459	532	604	630	196
165°	465	478	509	540	549	131
175°	484	485	488	495	494	46
180°	485	485	485	485	485	

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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°	2.0	11.8	24.6	27.5	28.5
92.5°	14.7	59.0	182.8	62.4	52.1
95°	33.4	108.6	582.7	170.0	114.0
97.5°	53.1	124.3	896.1	427.4	233.9
100°	72.7	137.0	930.5	894.2	616.1
102.5°	93.3	151.8	866.7	1197.3	975.7
105°	114.0	168.5	790.0	1381.6	1249.9
107.5°	135.6	188.2	722.2	1462.6	1428.7
110°	159.2	208.4	666.2	1465.1	1530.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.8	229.4	628.9	1409.6	1551.5
115°	201.4	251.0	604.3	1325.0	1520.1
117.5°	222.1	271.7	587.6	1234.6	1451.3
120°	243.7	292.3	576.8	1149.2	1360.9
122.5°	262.4	312.0	569.9	1081.9	1276.4
125°	280.0	330.6	564.0	1021.9	1198.8
127.5°	293.8	348.4	561.1	972.8	1132.0
130°	306.6	364.0	558.1	927.6	1076.9
132.5°	316.4	378.3	557.1	885.4	1022.9
135°	328.2	391.6	556.2	841.6	971.8
137.5°	339.0	402.4	554.2	800.3	917.8
140°	349.8	412.2	553.2	760.0	860.8
142.5°	361.6	421.0	551.2	723.2	807.7
145°	374.4	428.9	549.3	690.2	759.6
147.5°	387.1	437.2	546.3	664.8	718.3
150°	399.9	444.2	542.4	642.2	682.9
152.5°	412.7	451.6	537.5	622.5	653.4
155°	425.5	458.9	531.6	604.3	629.9
157.5°	435.3	465.3	526.7	586.6	607.3
160°	447.1	470.7	520.8	570.4	585.6
162.5°	455.9	474.6	514.9	555.2	566.0
165°	464.8	478.0	509.0	540.0	549.3
167.5°	471.7	481.0	503.1	526.7	532.6
170°	477.6	482.4	497.2	514.9	517.8
172.5°	481.5	483.9	492.3	504.6	504.1
175°	484.4	484.9	488.4	495.2	494.3
177.5°	486.4	485.4	485.4	489.3	487.4
180°	485.4	485.4	485.4	485.4	485.4

(END OF REPORT)