

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: P1012726

Luminaire Tested: S123RDIP-B775D1025UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012726
REPORT IS A COMBINATION OF REPORTS P993557 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D1025UB50-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

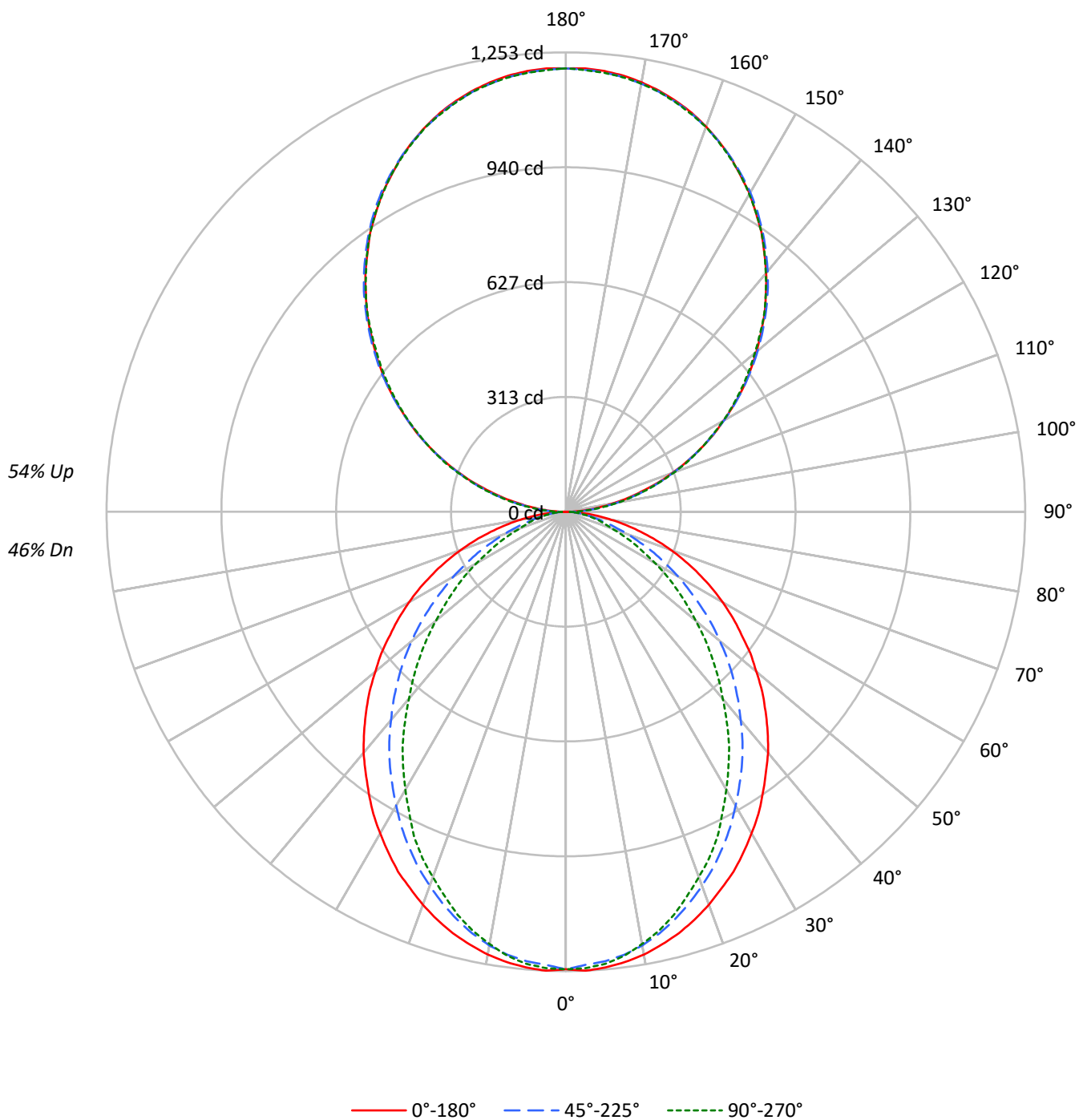
Lumens per Lamp: N/A
Luminaire Lumens: 6173.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	85	82	79	71	69	67	58	57	56	47	46	45
2	89	81	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33
4	74	64	56	50	68	59	52	47	50	45	41	41	37	34	33	31	28
5	68	57	49	43	62	53	46	40	45	39	35	37	33	30	30	27	25
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	27	24	22
7	58	46	38	33	53	43	36	31	36	31	27	31	26	23	25	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13431	13431	13431
5°	13453	12956	12921
10°	13347	12468	12223
15°	13174	11866	11459
20°	12946	11212	10605
25°	12712	10531	9795
30°	12412	9808	8839
35°	12102	9096	7968
40°	11811	8324	7005
45°	11437	7570	6140
50°	11025	6763	5245
55°	10598	5900	4424
60°	10191	5015	3590
65°	9662	4106	2802
70°	9000	3105	2003
75°	8045	2103	1587
80°	6868	1462	1113
85°	5149	788	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	1.9
10°-20°	326.3	5.3
20°-30°	469.8	7.6
30°-40°	529.1	8.6
40°-50°	506.1	8.2
50°-60°	414.3	6.7
60°-70°	279.3	4.5
70°-80°	140.1	2.3
80°-90°	39.2	0.6
90°-100°	77.9	1.3
100°-110°	235.7	3.8
110°-120°	401.2	6.5
120°-130°	527.8	8.6
130°-140°	593.3	9.6
140°-150°	583.2	9.4
150°-160°	491.0	8.0
160°-170°	326.9	5.3
170°-180°	114.5	1.9
0°-30°	913.4	14.8
0°-40°	1442.6	23.4
0°-60°	2363.0	38.3
0°-90°	2821.5	45.7
90°-120°	714.7	11.6
90°-150°	2419.0	39.2
90°-180°	3351.0	54.3
0°-180°	6173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1248	1243	1231	1240	1238	118
15°	1190	1179	1151	1146	1138	335
25°	1083	1058	1011	990	979	498
35°	937	901	838	794	776	587
45°	770	725	647	589	565	594
55°	585	535	449	391	370	525
65°	400	344	265	216	204	396
75°	212	163	107	97	95	225
85°	54	31	28	26	26	59
90°	1	10	23	27	28	8
95°	56	63	70	74	74	62
105°	214	216	224	224	226	229
115°	404	407	405	406	405	400
125°	591	594	592	588	584	527
135°	767	772	772	768	766	591
145°	930	932	935	934	930	581
155°	1065	1065	1066	1070	1063	490
165°	1160	1157	1157	1163	1156	327
175°	1207	1203	1203	1209	1202	115
180°	1210	1210	1210	1210	1210	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.8	1247.8	1247.8	1247.8	1247.8
2.5°	1252.9	1248.8	1236.7	1247.8	1245.8
5°	1247.8	1242.7	1230.6	1239.7	1237.7
7.5°	1238.7	1233.6	1218.5	1224.5	1221.5
10°	1226.5	1219.5	1201.2	1202.3	1197.2
12.5°	1209.3	1201.2	1178.0	1177.0	1170.9
15°	1190.1	1179.0	1150.6	1145.6	1138.5
17.5°	1166.8	1154.7	1119.3	1109.2	1099.0
20°	1140.5	1124.3	1085.9	1072.7	1060.6
22.5°	1111.2	1092.0	1050.5	1033.3	1022.1
25°	1082.8	1057.5	1011.0	989.7	978.6
27.5°	1048.4	1021.1	970.5	942.2	925.0
30°	1013.0	982.7	926.0	891.6	875.4
32.5°	977.6	942.2	881.5	843.0	825.8
35°	937.1	900.7	837.9	794.4	776.2
37.5°	896.6	857.2	791.4	742.8	720.5
40°	858.2	813.7	741.8	689.2	665.9
42.5°	814.7	770.1	695.2	636.5	616.3
45°	770.1	724.6	646.7	589.0	564.7
47.5°	726.6	676.0	599.1	536.4	515.1
50°	678.0	630.5	548.5	485.8	462.5
52.5°	634.5	581.9	500.9	435.2	414.9
55°	584.9	535.3	449.3	390.6	370.4
57.5°	540.4	486.8	399.7	344.1	326.9
60°	493.9	438.2	354.2	299.6	282.3
62.5°	447.3	391.6	307.6	257.0	238.8
65°	399.7	344.1	265.1	215.6	204.4
67.5°	352.2	295.5	218.6	181.1	169.0
70°	305.6	251.0	180.1	144.7	133.6
72.5°	259.1	205.4	142.7	115.4	112.3
75°	211.5	162.9	107.3	97.2	95.1
77.5°	168.0	123.5	84.0	77.9	75.9
80°	126.5	85.0	63.8	60.7	58.7
82.5°	87.0	52.6	45.5	42.5	42.5
85°	53.6	31.4	28.3	26.3	26.3
87.5°	24.3	13.2	13.2	12.1	11.1
90°	1.0	10.5	22.8	26.6	28.5
92.5°	28.5	34.2	39.9	42.8	40.9
95°	56.1	62.7	70.3	74.1	74.1
97.5°	92.2	96.9	102.6	107.4	106.4
100°	129.2	134.9	139.7	142.5	144.4
102.5°	172.0	174.8	181.5	184.3	183.4
105°	213.8	215.7	224.2	224.2	226.1
107.5°	263.2	264.1	267.9	270.8	269.8
110°	308.8	310.7	312.6	316.4	314.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	356.3	357.3	357.3	362.0	362.0
115°	403.8	406.7	404.8	405.7	404.8
117.5°	452.3	453.2	451.3	451.3	448.5
120°	496.9	502.6	497.9	496.9	495.0
122.5°	543.5	547.3	545.4	542.5	539.7
125°	591.0	593.8	591.9	588.1	584.3
127.5°	634.7	640.4	638.5	632.8	629.0
130°	678.4	686.0	683.2	679.4	672.7
132.5°	722.1	729.7	727.8	723.1	718.3
135°	766.8	772.5	771.5	767.7	765.8
137.5°	807.6	812.4	815.2	810.5	807.6
140°	850.4	855.1	856.1	855.1	848.5
142.5°	889.3	894.1	896.0	895.0	890.3
145°	930.2	932.1	935.0	934.0	930.2
147.5°	965.4	969.2	972.0	972.0	966.3
150°	1002.4	1004.3	1006.2	1006.2	1000.5
152.5°	1032.8	1035.7	1036.6	1038.5	1033.8
155°	1065.1	1065.1	1066.1	1069.9	1063.2
157.5°	1092.7	1091.7	1092.7	1096.5	1090.8
160°	1118.3	1116.4	1116.4	1121.2	1117.4
162.5°	1141.1	1138.3	1139.2	1144.0	1137.3
165°	1160.1	1157.3	1157.3	1163.0	1156.3
167.5°	1176.3	1172.5	1173.4	1179.1	1173.4
170°	1189.6	1185.8	1185.8	1192.4	1185.8
172.5°	1200.0	1196.2	1196.2	1201.9	1195.3
175°	1206.7	1202.9	1202.9	1208.6	1201.9
177.5°	1210.5	1206.7	1206.7	1212.4	1205.7
180°	1209.5	1209.5	1209.5	1209.5	1209.5

(END OF REPORT)