

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: P1012725

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012725
REPORT IS A COMBINATION OF REPORTS P993556 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-F
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

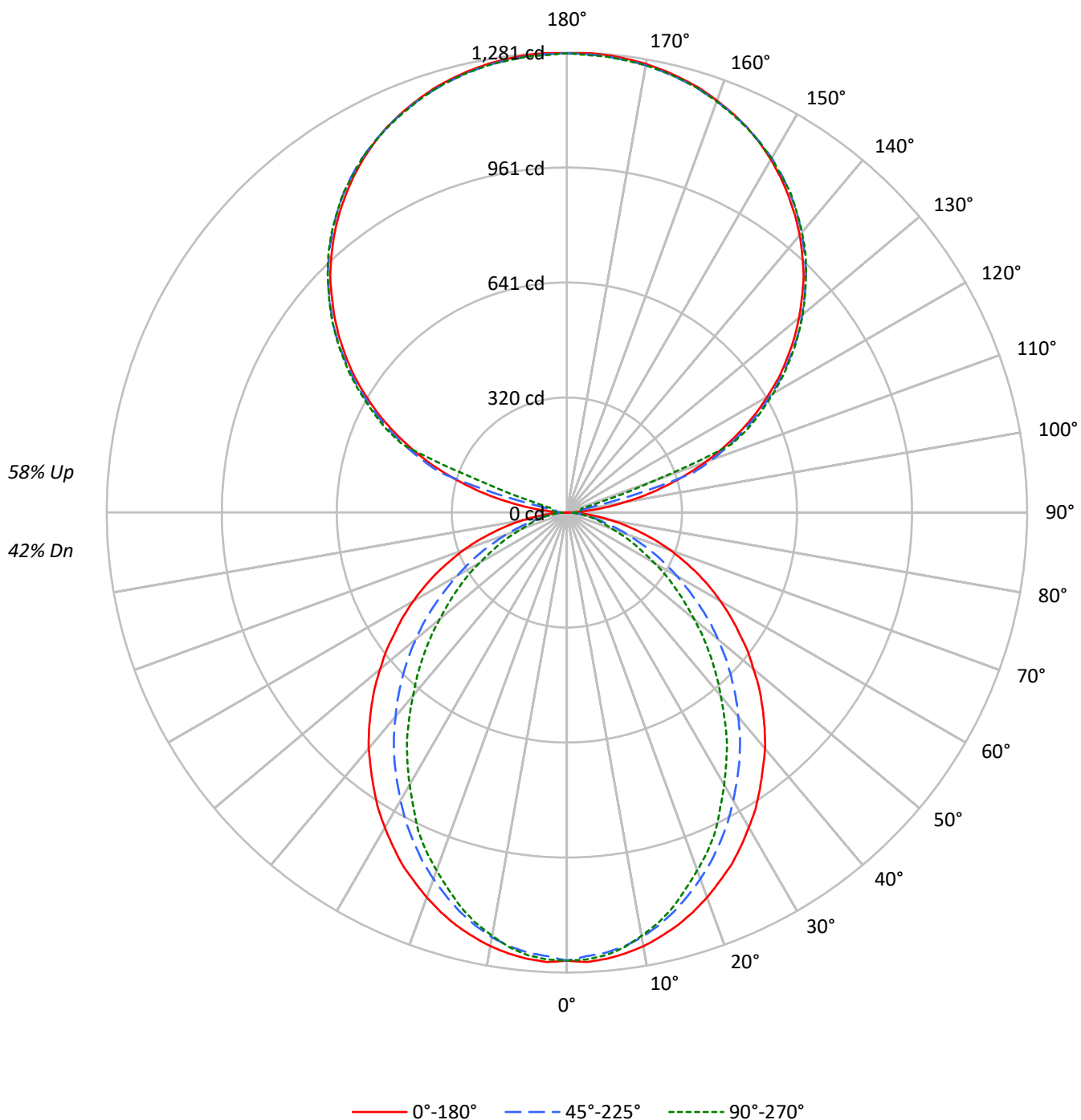
Lumens per Lamp: N/A
Luminaire Lumens: 6720.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	85	88	84	81	78	70	67	65	56	54	53	44	43	42
2	88	81	75	70	80	74	69	65	61	58	54	49	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	31
4	74	63	55	50	67	58	51	46	48	43	39	39	36	33	31	29	26
5	68	56	48	43	61	52	45	40	43	38	34	35	32	29	28	25	23
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21
7	58	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	21	19	16
9	50	38	30	26	45	35	28	24	30	25	21	25	21	18	20	17	15
10	46	35	28	23	42	32	26	22	27	22	19	23	19	16	18	16	14

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	1.7
10°-20°	326.3	4.9
20°-30°	469.8	7.0
30°-40°	529.1	7.9
40°-50°	506.1	7.5
50°-60°	414.3	6.2
60°-70°	279.3	4.2
70°-80°	140.1	2.1
80°-90°	39.2	0.6
90°-100°	45.1	0.7
100°-110°	218.0	3.2
110°-120°	534.3	8.0
120°-130°	678.2	10.1
130°-140°	724.6	10.8
140°-150°	677.5	10.1
150°-160°	546.5	8.1
160°-170°	352.7	5.2
170°-180°	121.5	1.8
0°-30°	913.4	13.6
0°-40°	1442.6	21.5
0°-60°	2363.0	35.2
0°-90°	2821.5	42.0
90°-120°	797.4	11.9
90°-150°	2877.8	42.8
90°-180°	3898.0	58.0
0°-180°	6720.0	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	7
95°	58	19	30	36	36	69
105°	283	294	208	40	42	300
115°	531	537	545	555	559	524
125°	749	756	760	762	764	669
135°	932	938	942	944	942	718
145°	1076	1082	1084	1086	1086	673
155°	1185	1183	1184	1188	1183	546
165°	1249	1246	1246	1253	1246	353
175°	1279	1274	1275	1282	1274	122
180°	1279	1279	1279	1279	1279	

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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°	21.9	16.2	24.7	31.4	32.3
95°	58.0	19.0	29.5	36.1	36.1
97.5°	105.5	78.9	30.4	38.0	39.0
100°	160.6	179.6	31.4	39.0	39.9
102.5°	223.3	235.6	70.3	39.0	40.9
105°	283.1	293.6	208.1	39.9	41.8
107.5°	346.8	355.3	369.6	223.3	98.8
110°	410.4	418.0	428.5	397.1	261.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	471.2	477.9	488.3	496.9	495.0
115°	531.1	536.8	545.3	554.8	558.6
117.5°	590.0	596.6	601.4	609.0	609.9
120°	644.1	652.7	655.5	663.1	663.1
122.5°	699.2	705.9	709.7	714.4	715.4
125°	748.6	756.2	760.0	761.9	763.8
127.5°	798.0	805.6	810.4	813.2	811.3
130°	843.6	851.2	855.0	858.8	856.9
132.5°	887.4	895.0	897.8	901.6	898.8
135°	932.0	937.7	941.5	944.4	941.5
137.5°	970.0	977.6	979.5	984.3	982.4
140°	1008.0	1013.7	1016.6	1020.4	1018.5
142.5°	1043.2	1048.9	1051.7	1054.6	1051.7
145°	1075.5	1082.1	1084.0	1085.9	1085.9
147.5°	1106.8	1111.6	1113.5	1115.4	1110.6
150°	1135.3	1138.2	1140.1	1142.0	1139.1
152.5°	1161.0	1161.9	1162.9	1166.7	1161.9
155°	1184.7	1182.8	1183.8	1188.5	1182.8
157.5°	1203.7	1203.7	1202.8	1208.5	1200.9
160°	1220.8	1219.9	1218.9	1224.6	1218.0
162.5°	1237.0	1234.1	1233.2	1239.8	1234.1
165°	1249.3	1246.5	1245.5	1253.1	1246.5
167.5°	1259.8	1256.0	1256.0	1263.6	1256.0
170°	1268.3	1264.5	1264.5	1272.1	1264.5
172.5°	1274.0	1269.3	1270.2	1277.8	1269.3
175°	1278.8	1274.0	1275.0	1281.6	1274.0
177.5°	1280.7	1275.9	1276.9	1284.5	1275.0
180°	1278.8	1278.8	1278.8	1278.8	1278.8

(END OF REPORT)