

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: P1011973

Luminaire Tested: S123DIP-B775D1195UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011973
REPORT IS A COMBINATION OF REPORTS P990327 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB40-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

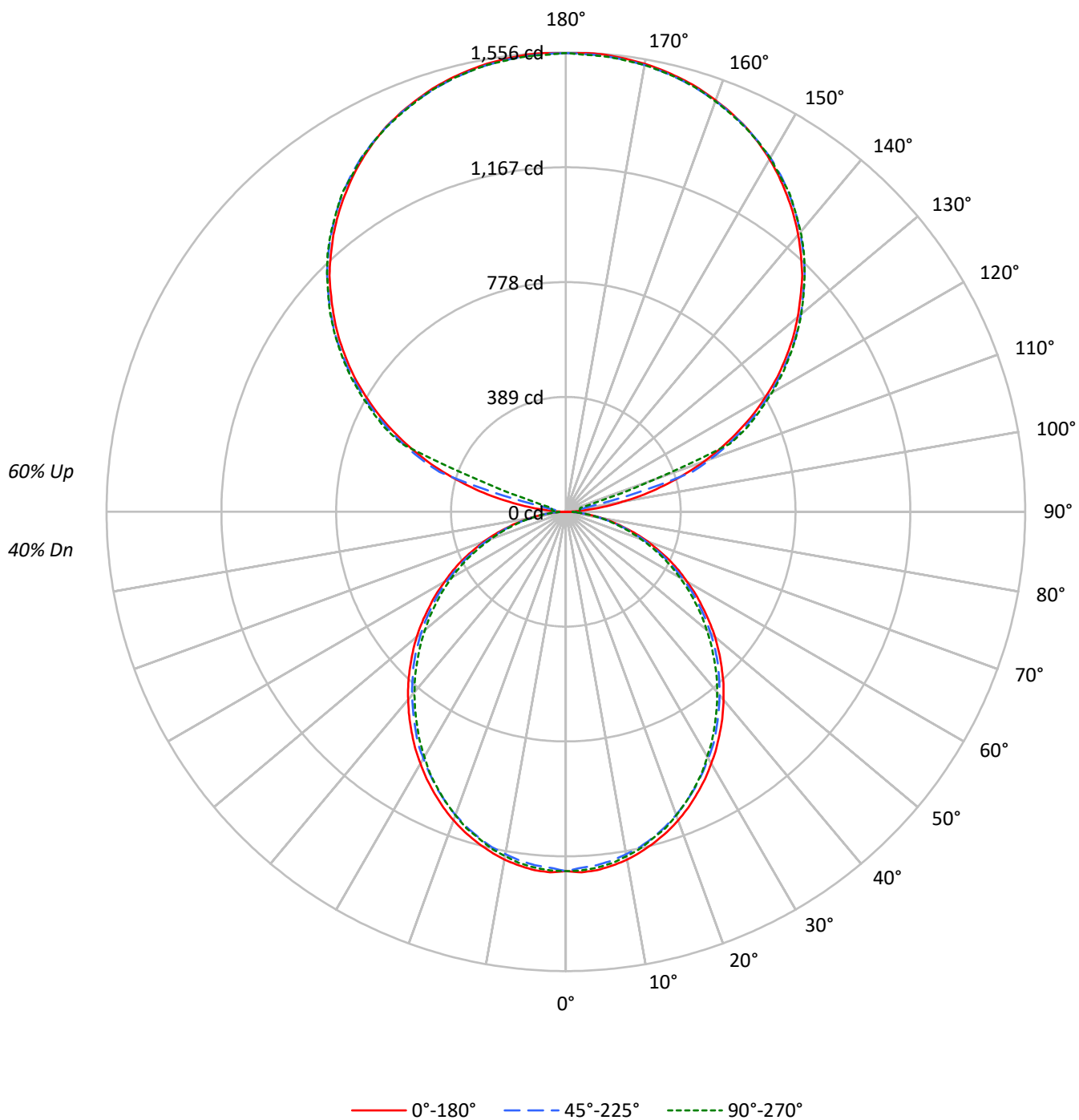
Lumens per Lamp: N/A
Luminaire Lumens: 7908.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	40
2	87	80	74	68	79	73	67	63	60	56	53	48	45	43	36	35	33
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	26	23	21
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	24	21	19
7	56	44	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13
10	45	34	26	22	41	31	25	20	26	21	18	21	17	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13103	13103	13103
5°	13135	12651	12631
10°	13018	12222	12097
15°	12837	11777	11514
20°	12630	11282	10937
25°	12361	10762	10320
30°	12067	10221	9670
35°	11760	9669	9025
40°	11437	9091	8391
45°	11083	8527	7728
50°	10723	7898	7063
55°	10259	7243	6387
60°	9783	6520	5671
65°	9336	5738	4922
70°	8693	4872	4048
75°	7764	3858	3143
80°	6705	2712	2223
85°	5225	1456	1113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.5
10°-20°	324.0	4.1
20°-30°	478.6	6.1
30°-40°	558.9	7.1
40°-50°	561.9	7.1
50°-60°	493.6	6.2
60°-70°	367.6	4.6
70°-80°	209.2	2.6
80°-90°	62.6	0.8
90°-100°	54.8	0.7
100°-110°	264.9	3.4
110°-120°	649.2	8.2
120°-130°	824.1	10.4
130°-140°	880.4	11.1
140°-150°	823.3	10.4
150°-160°	664.0	8.4
160°-170°	428.5	5.4
170°-180°	147.7	1.9
0°-30°	917.4	11.6
0°-40°	1476.3	18.7
0°-60°	2531.7	32.0
0°-90°	3171.1	40.1
90°-120°	968.9	12.3
90°-150°	3496.7	44.2
90°-180°	4737.0	59.9
0°-180°	7908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1218	1213	1202	1212	1210	116
15°	1160	1156	1142	1150	1144	327
25°	1053	1047	1033	1034	1031	485
35°	911	904	891	884	879	570
45°	746	742	728	716	711	576
55°	566	565	552	540	535	507
65°	386	381	370	362	359	381
75°	204	200	197	192	188	218
85°	54	52	52	50	50	58
90°	1	13	28	32	35	8
95°	70	23	36	44	44	84
105°	344	357	253	48	51	365
115°	645	652	663	674	679	637
125°	910	919	924	926	928	813
135°	1132	1139	1144	1148	1144	872
145°	1307	1315	1317	1320	1320	818
155°	1440	1437	1438	1444	1437	663
165°	1518	1515	1513	1523	1515	429
175°	1554	1548	1549	1557	1548	148
180°	1554	1554	1554	1554	1554	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.3	1217.3	1217.3	1217.3	1217.3
2.5°	1222.5	1218.3	1206.8	1217.3	1216.2
5°	1218.3	1213.1	1201.6	1212.0	1209.9
7.5°	1208.9	1203.7	1192.1	1201.6	1200.5
10°	1196.3	1191.1	1177.5	1186.9	1184.8
12.5°	1179.6	1175.4	1162.8	1169.1	1168.1
15°	1159.7	1155.5	1141.9	1150.3	1144.0
17.5°	1137.7	1132.5	1118.9	1125.2	1123.1
20°	1112.6	1106.3	1092.7	1096.9	1093.8
22.5°	1084.3	1078.1	1064.5	1067.6	1063.4
25°	1052.9	1046.7	1033.1	1034.1	1031.0
27.5°	1020.5	1014.2	999.6	1000.6	997.5
30°	984.9	979.7	965.0	965.0	957.7
32.5°	949.3	942.0	931.5	924.2	921.1
35°	910.6	904.3	890.7	884.4	879.2
37.5°	871.9	863.5	849.9	842.6	839.4
40°	831.0	824.8	810.1	801.7	797.6
42.5°	790.2	782.9	768.2	759.9	755.7
45°	746.3	742.1	728.5	715.9	710.7
47.5°	703.4	697.1	684.5	672.0	667.8
50°	659.4	654.2	640.6	629.0	622.8
52.5°	613.3	610.2	595.5	586.1	579.8
55°	566.2	565.2	551.6	540.1	534.8
57.5°	522.3	518.1	507.6	497.2	490.9
60°	474.1	473.1	460.5	451.1	445.9
62.5°	431.2	428.1	415.5	406.1	403.0
65°	386.2	381.0	370.5	362.1	359.0
67.5°	338.1	333.9	325.5	318.2	314.0
70°	295.2	288.9	282.6	275.3	270.0
72.5°	250.2	246.0	238.6	232.4	230.3
75°	204.1	199.9	196.8	191.5	188.4
77.5°	163.3	161.2	157.0	152.8	152.8
80°	123.5	120.4	118.3	117.2	117.2
82.5°	84.8	84.8	84.8	82.7	81.6
85°	54.4	52.3	52.3	50.2	50.2
87.5°	27.2	24.1	23.0	22.0	22.0
90°	1.2	12.7	27.7	32.3	34.6
92.5°	26.6	19.6	30.0	38.1	39.2
95°	70.4	23.1	35.8	43.9	43.9
97.5°	128.1	95.8	36.9	46.2	47.3
100°	195.1	218.2	38.1	47.3	48.5
102.5°	271.3	286.3	85.4	47.3	49.6
105°	344.0	356.7	252.8	48.5	50.8
107.5°	421.4	431.7	449.1	271.3	120.1
110°	498.7	507.9	520.6	482.5	317.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	572.6	580.7	593.4	603.7	601.4
115°	645.3	652.2	662.6	674.2	678.8
117.5°	716.9	725.0	730.7	740.0	741.1
120°	782.7	793.1	796.5	805.8	805.8
122.5°	849.6	857.7	862.3	868.1	869.3
125°	909.7	918.9	923.5	925.8	928.1
127.5°	969.7	978.9	984.7	988.2	985.8
130°	1025.1	1034.3	1038.9	1043.6	1041.3
132.5°	1078.2	1087.4	1090.9	1095.5	1092.0
135°	1132.5	1139.4	1144.0	1147.5	1144.0
137.5°	1178.6	1187.9	1190.2	1195.9	1193.6
140°	1224.8	1231.7	1235.2	1239.8	1237.5
142.5°	1267.5	1274.4	1277.9	1281.4	1277.9
145°	1306.8	1314.8	1317.2	1319.5	1319.5
147.5°	1344.9	1350.6	1352.9	1355.2	1349.5
150°	1379.5	1383.0	1385.3	1387.6	1384.1
152.5°	1410.7	1411.8	1413.0	1417.6	1411.8
155°	1439.5	1437.2	1438.4	1444.1	1437.2
157.5°	1462.6	1462.6	1461.5	1468.4	1459.1
160°	1483.4	1482.2	1481.1	1488.0	1479.9
162.5°	1503.0	1499.5	1498.4	1506.5	1499.5
165°	1518.0	1514.6	1513.4	1522.6	1514.6
167.5°	1530.7	1526.1	1526.1	1535.3	1526.1
170°	1541.1	1536.5	1536.5	1545.7	1536.5
172.5°	1548.0	1542.3	1543.4	1552.6	1542.3
175°	1553.8	1548.0	1549.2	1557.3	1548.0
177.5°	1556.1	1550.3	1551.5	1560.7	1549.2
180°	1553.8	1553.8	1553.8	1553.8	1553.8

(END OF REPORT)