

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: P1011952

Luminaire Tested: S123DIP-B775D1195UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011952
REPORT IS A COMBINATION OF REPORTS P990306 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

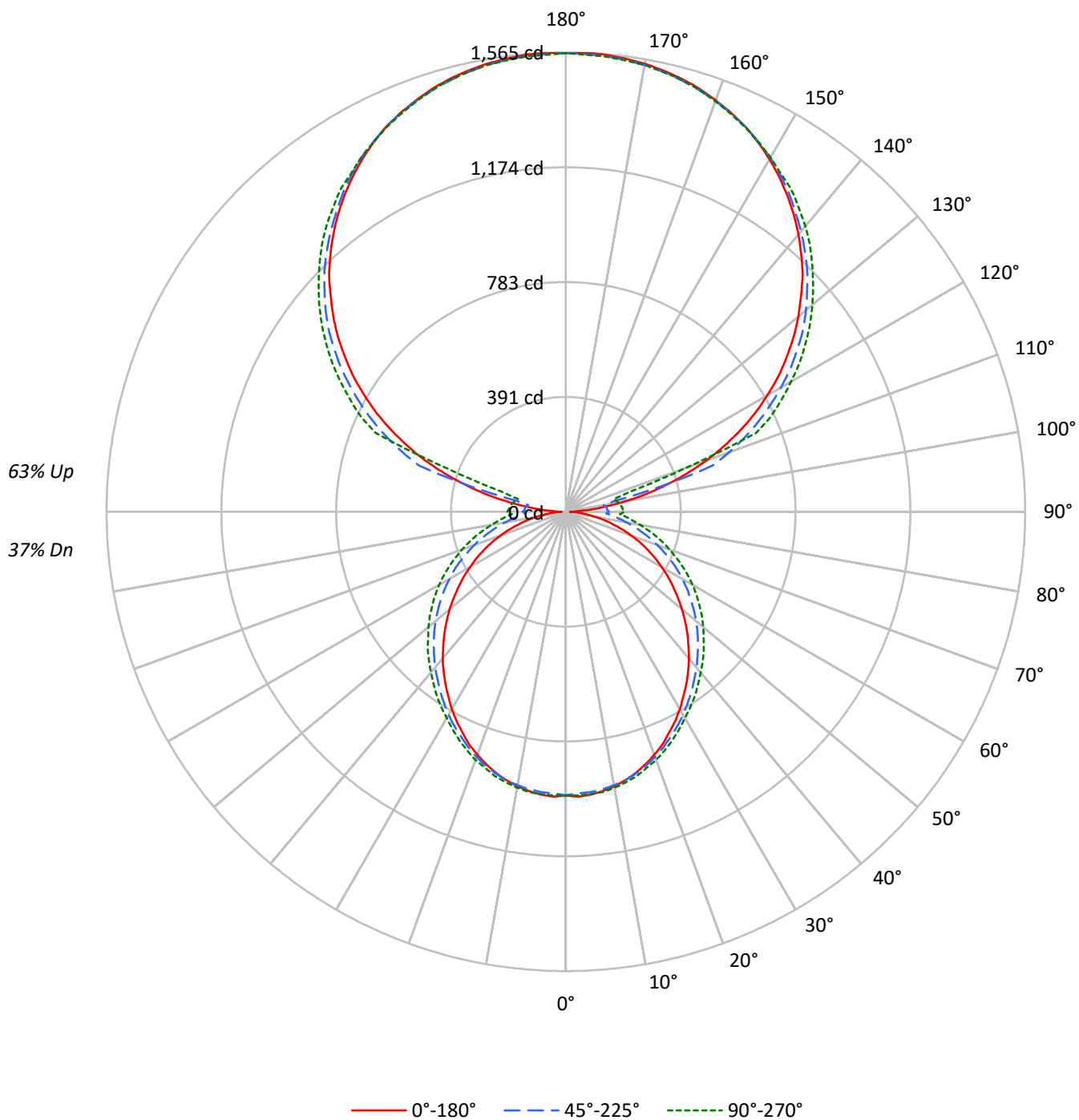
Lumens per Lamp: N/A
Luminaire Lumens: 8014.1 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44
1	94	90	85	82	85	81	78	75	66	63	61	51	49	48	38	37	36
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	30
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	54	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.1
10°-20°	261.3	3.3
20°-30°	390.7	4.9
30°-40°	466.5	5.8
40°-50°	488.1	6.1
50°-60°	458.0	5.7
60°-70°	382.6	4.8
70°-80°	273.6	3.4
80°-90°	165.9	2.1
90°-100°	157.4	2.0
100°-110°	341.6	4.3
110°-120°	703.1	8.8
120°-130°	857.5	10.7
130°-140°	898.3	11.2
140°-150°	830.6	10.4
150°-160°	667.8	8.3
160°-170°	431.0	5.4
170°-180°	148.5	1.9
0°-30°	743.6	9.3
0°-40°	1210.1	15.1
0°-60°	2156.2	26.9
0°-90°	2978.3	37.2
90°-120°	1202.1	15.0
90°-150°	3788.5	47.3
90°-180°	5036.0	62.8
0°-180°	8014.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	15	78	147	187	200	14
95°	82	76	140	181	191	94
105°	354	392	333	157	169	375
115°	654	674	722	759	772	646
125°	918	927	962	987	996	821
135°	1141	1147	1163	1186	1187	878
145°	1315	1322	1325	1335	1340	823
155°	1448	1445	1447	1452	1445	667
165°	1527	1523	1522	1531	1523	431
175°	1563	1557	1558	1566	1557	149
180°	1563	1563	1563	1563	1563	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	14.9	78.1	146.8	187.2	200.0
92.5°	39.3	77.6	140.7	183.5	194.2
95°	82.4	75.8	140.2	180.9	191.4
97.5°	139.4	144.8	135.1	175.9	187.6
100°	205.7	262.6	129.9	169.7	181.4
102.5°	281.2	325.8	171.1	162.3	175.1
105°	354.4	392.4	333.2	157.2	169.0
107.5°	431.2	463.7	524.2	373.8	231.2
110°	507.8	536.1	591.0	580.0	422.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	582.1	605.0	657.7	694.6	701.7
115°	654.3	673.8	722.2	759.0	772.1
117.5°	726.3	742.8	784.4	818.9	828.4
120°	791.3	807.1	845.3	878.8	886.2
122.5°	858.7	868.9	906.1	935.1	943.7
125°	918.0	927.3	962.5	986.9	996.5
127.5°	978.4	986.6	1018.7	1043.3	1048.3
130°	1034.1	1042.3	1068.1	1092.7	1096.7
132.5°	1086.4	1095.7	1115.0	1138.6	1142.5
135°	1141.0	1147.0	1163.1	1185.6	1187.3
137.5°	1187.4	1195.7	1205.4	1228.1	1230.9
140°	1232.9	1239.8	1246.4	1266.9	1269.8
142.5°	1275.8	1281.7	1285.2	1302.4	1304.1
145°	1315.3	1322.3	1324.7	1335.4	1339.6
147.5°	1352.5	1358.3	1360.6	1366.2	1364.6
150°	1387.3	1390.8	1393.2	1395.5	1394.1
152.5°	1418.7	1419.9	1421.0	1425.7	1419.9
155°	1447.7	1445.4	1446.6	1452.4	1445.4
157.5°	1470.9	1470.9	1469.8	1476.7	1467.5
160°	1491.8	1490.7	1489.5	1496.5	1488.4
162.5°	1511.6	1508.1	1506.9	1515.1	1508.1
165°	1526.7	1523.2	1522.0	1531.3	1523.2
167.5°	1539.4	1534.8	1534.8	1544.1	1534.8
170°	1549.9	1545.2	1545.2	1554.5	1545.2
172.5°	1556.8	1551.0	1552.2	1561.5	1551.0
175°	1562.7	1556.8	1558.0	1566.1	1556.8
177.5°	1565.0	1559.2	1560.3	1569.6	1558.0
180°	1562.7	1562.7	1562.7	1562.7	1562.7

(END OF REPORT)