

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: P1011943

Luminaire Tested: S123DIP-B775D1195UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011943
REPORT IS A COMBINATION OF REPORTS P990282 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

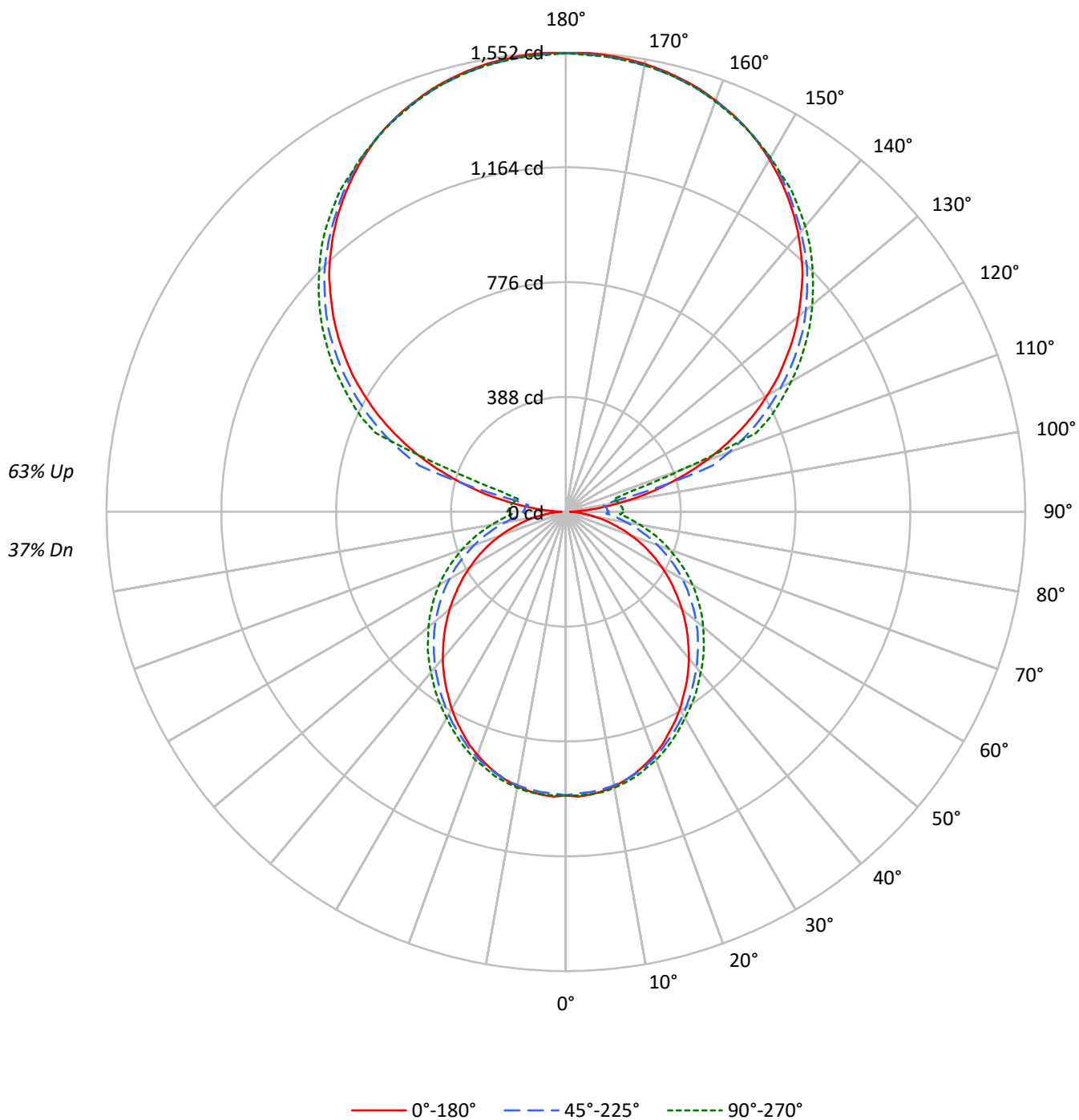
Lumens per Lamp: N/A
Luminaire Lumens: 7946.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	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	37		
1	94	90	85	82	85	81	78	75	66	63	61	51	49	48	38	37	36	30		
2	85	78	71	66	77	71	65	60	57	53	50	44	42	39	33	31	30	24		
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25	20		
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21	17		
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	15		
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16	13		
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14	11		
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13	10		
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11	9		
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	15	12	10	8		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10313	10313	10313
5°	10342	10010	10002
10°	10244	9739	9665
15°	10109	9440	9307
20°	9917	9106	8923
25°	9679	8730	8525
30°	9437	8391	8125
35°	9165	8033	7800
40°	8906	7706	7456
45°	8618	7390	7172
50°	8334	7077	6864
55°	8018	6756	6582
60°	7709	6428	6291
65°	7392	6078	5953
70°	6915	5685	5602
75°	6311	5238	5242
80°	5608	4784	4830
85°	4908	4417	4535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8618 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.1
10°-20°	259.1	3.3
20°-30°	387.5	4.9
30°-40°	462.6	5.8
40°-50°	484.0	6.1
50°-60°	454.2	5.7
60°-70°	379.4	4.8
70°-80°	271.3	3.4
80°-90°	164.5	2.1
90°-100°	156.1	2.0
100°-110°	338.7	4.3
110°-120°	697.1	8.8
120°-130°	850.1	10.7
130°-140°	890.5	11.2
140°-150°	823.5	10.4
150°-160°	662.1	8.3
160°-170°	427.3	5.4
170°-180°	147.2	1.9
0°-30°	737.5	9.3
0°-40°	1200.1	15.1
0°-60°	2138.3	26.9
0°-90°	2953.5	37.2
90°-120°	1191.8	15.0
90°-150°	3755.9	47.3
90°-180°	4993.0	62.8
0°-180°	7946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	959	957	951	959	958	91
15°	913	916	915	926	925	257
25°	824	835	838	852	852	380
35°	710	726	740	756	760	444
45°	580	605	631	651	660	447
55°	442	477	514	543	551	396
65°	306	346	392	424	434	302
75°	166	215	267	302	314	177
85°	51	103	159	194	205	53
90°	15	77	146	186	198	14
95°	82	75	139	179	190	93
105°	351	389	330	156	168	372
115°	649	668	716	753	766	641
125°	910	919	954	978	988	814
135°	1131	1137	1153	1175	1177	871
145°	1304	1311	1313	1324	1328	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.1	958.1	958.1	958.1	958.1
2.5°	963.3	960.2	951.8	960.2	959.2
5°	959.2	957.1	950.8	959.2	958.1
7.5°	951.8	951.8	945.6	956.0	955.0
10°	941.4	943.5	938.3	948.7	946.6
12.5°	928.9	932.0	928.9	938.3	936.2
15°	913.2	916.4	915.3	925.8	924.7
17.5°	894.4	900.7	899.7	909.1	907.0
20°	873.6	879.8	881.9	891.3	892.4
22.5°	851.7	857.9	861.0	873.6	872.5
25°	824.5	835.0	838.1	851.7	851.7
27.5°	798.4	809.9	816.2	827.6	828.7
30°	770.2	783.8	792.2	804.7	804.7
32.5°	738.9	754.6	766.1	779.6	782.8
35°	709.7	726.4	740.0	755.6	759.8
37.5°	678.4	697.2	712.8	730.6	733.7
40°	647.1	665.9	686.7	704.5	708.7
42.5°	612.6	636.7	658.6	678.4	684.7
45°	580.3	605.3	631.4	651.3	659.6
47.5°	545.9	574.0	603.3	625.2	631.4
50°	512.5	541.7	574.0	598.0	605.3
52.5°	477.0	508.3	544.8	569.9	579.2
55°	442.5	477.0	514.5	542.7	551.1
57.5°	409.1	444.6	485.3	513.5	522.9
60°	373.6	411.2	454.0	483.2	494.7
62.5°	340.2	378.9	424.8	454.0	464.4
65°	305.8	346.5	392.4	423.7	434.2
67.5°	271.4	314.2	360.1	394.5	402.9
70°	234.8	279.7	329.8	363.2	373.6
72.5°	201.4	246.3	298.5	332.9	343.4
75°	165.9	215.0	267.2	301.6	314.2
77.5°	135.7	184.7	236.9	273.4	282.8
80°	103.3	154.5	208.7	244.2	254.7
82.5°	75.1	127.3	182.6	218.1	228.6
85°	51.1	103.3	158.6	194.1	204.6
87.5°	31.3	83.5	136.7	172.2	182.6
90°	14.8	77.4	145.5	185.6	198.4
92.5°	39.0	77.0	139.5	182.0	192.5
95°	81.7	75.2	139.0	179.4	189.8
97.5°	138.2	143.5	133.9	174.4	186.0
100°	203.9	260.3	128.8	168.3	179.8
102.5°	278.8	323.0	169.7	161.0	173.7
105°	351.3	389.1	330.4	155.8	167.5
107.5°	427.4	459.7	519.7	370.7	229.3
110°	503.5	531.4	585.9	575.0	418.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	577.2	599.8	652.1	688.6	695.7
115°	648.6	668.0	716.0	752.6	765.5
117.5°	720.0	736.4	777.7	811.9	821.4
120°	784.6	800.1	838.0	871.2	878.5
122.5°	851.3	861.5	898.4	927.1	935.6
125°	910.1	919.3	954.2	978.4	988.0
127.5°	969.9	978.1	1010.0	1034.3	1039.3
130°	1025.2	1033.4	1058.9	1083.3	1087.3
132.5°	1077.1	1086.3	1105.4	1128.8	1132.6
135°	1131.2	1137.0	1153.1	1175.4	1177.1
137.5°	1177.2	1185.4	1195.0	1217.4	1220.4
140°	1222.2	1229.1	1235.7	1255.9	1258.8
142.5°	1264.8	1270.7	1274.1	1291.2	1292.9
145°	1303.9	1311.0	1313.3	1323.9	1328.1
147.5°	1340.9	1346.6	1348.9	1354.3	1352.8
150°	1375.4	1378.9	1381.2	1383.5	1382.1
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)