

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: P1011961

Luminaire Tested: S123DIP-B775D1195UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011961
REPORT IS A COMBINATION OF REPORTS P990315 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

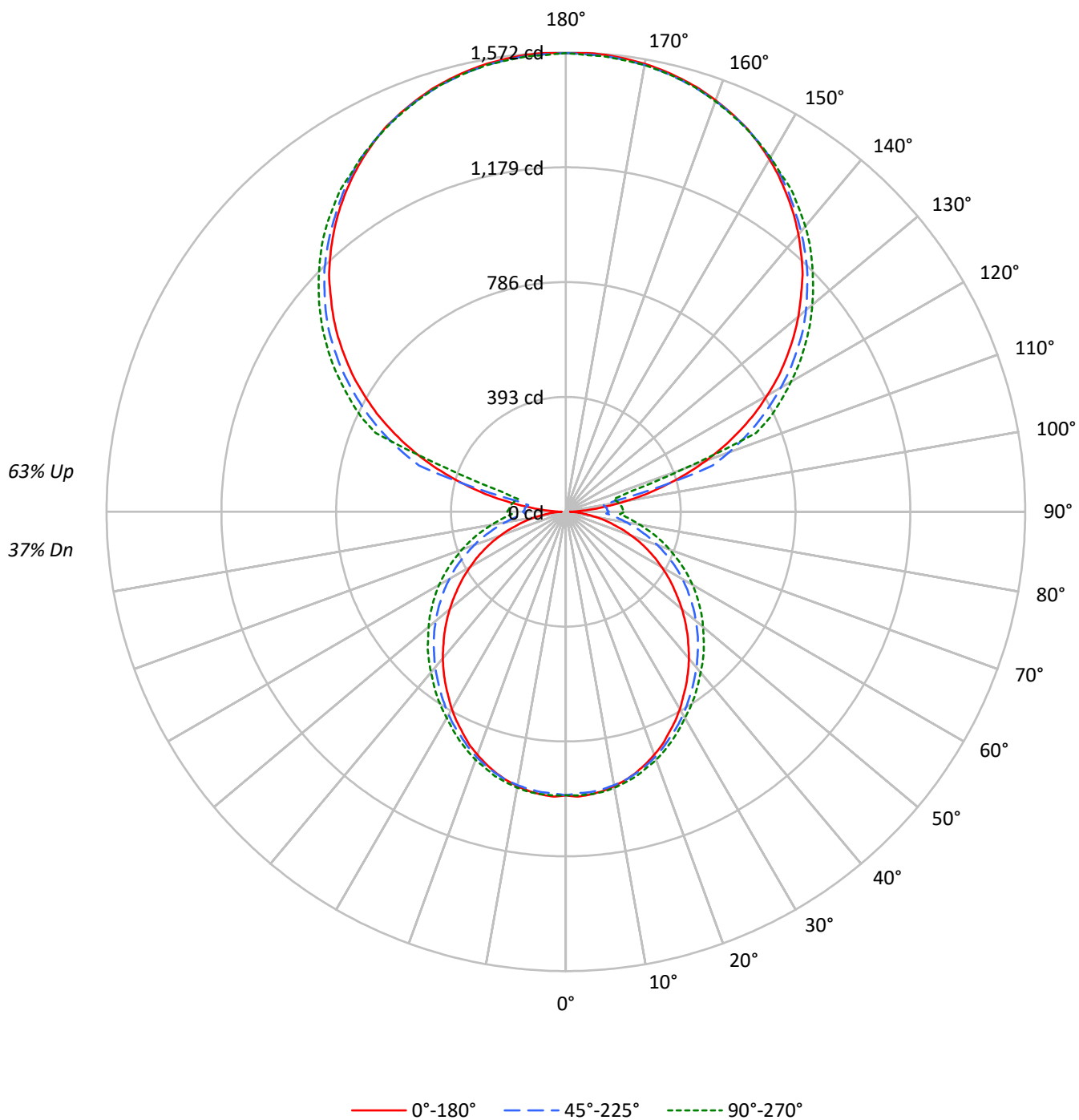
Lumens per Lamp: N/A
Luminaire Lumens: 8049.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	10444	10444	10444
5°	10473	10138	10130
10°	10375	9863	9788
15°	10238	9560	9426
20°	10043	9222	9036
25°	9803	8842	8633
30°	9558	8496	8228
35°	9281	8135	7899
40°	9019	7805	7550
45°	8728	7485	7263
50°	8440	7167	6951
55°	8121	6842	6666
60°	7808	6510	6371
65°	7487	6155	6028
70°	7003	5758	5674
75°	6394	5305	5309
80°	5679	4846	4891
85°	4976	4475	4593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.1
10°-20°	262.4	3.3
20°-30°	392.4	4.9
30°-40°	468.5	5.8
40°-50°	490.2	6.1
50°-60°	460.0	5.7
60°-70°	384.2	4.8
70°-80°	274.7	3.4
80°-90°	166.6	2.1
90°-100°	158.1	2.0
100°-110°	343.1	4.3
110°-120°	706.2	8.8
120°-130°	861.2	10.7
130°-140°	902.2	11.2
140°-150°	834.3	10.4
150°-160°	670.8	8.3
160°-170°	432.9	5.4
170°-180°	149.2	1.9
0°-30°	746.8	9.3
0°-40°	1215.3	15.1
0°-60°	2165.5	26.9
0°-90°	2991.1	37.2
90°-120°	1207.3	15.0
90°-150°	3805.1	47.3
90°-180°	5058.0	62.8
0°-180°	8049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	971	969	963	971	970	92
15°	925	928	927	938	936	261
25°	835	846	849	862	862	385
35°	719	736	749	765	770	449
45°	588	613	640	660	668	453
55°	448	483	521	550	558	401
65°	310	351	397	429	440	306
75°	168	218	271	306	318	180
85°	52	105	161	197	207	53
90°	15	78	147	188	201	14
95°	83	76	141	182	192	94
105°	356	394	335	158	170	377
115°	657	677	725	762	776	649
125°	922	931	967	991	1001	824
135°	1146	1152	1168	1191	1193	882
145°	1321	1328	1330	1341	1346	827
155°	1454	1452	1453	1459	1452	670
165°	1533	1530	1529	1538	1530	433
175°	1570	1564	1565	1573	1564	149
180°	1570	1570	1570	1570	1570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.3	970.3	970.3	970.3	970.3
2.5°	975.6	972.4	964.0	972.4	971.4
5°	971.4	969.3	962.9	971.4	970.3
7.5°	964.0	964.0	957.6	968.2	967.1
10°	953.4	955.5	950.2	960.8	958.7
12.5°	940.7	943.9	940.7	950.2	948.1
15°	924.9	928.0	927.0	937.5	936.5
17.5°	905.8	912.2	911.1	920.6	918.5
20°	884.7	891.0	893.1	902.7	903.7
22.5°	862.5	868.8	872.0	884.7	883.6
25°	835.0	845.6	848.8	862.5	862.5
27.5°	808.6	820.2	826.6	838.2	839.2
30°	780.1	793.8	802.2	814.9	814.9
32.5°	748.3	764.2	775.8	789.6	792.7
35°	718.7	735.7	749.4	765.3	769.5
37.5°	687.0	706.1	721.9	739.9	743.1
40°	655.3	674.4	695.5	713.5	717.7
42.5°	620.4	644.8	667.0	687.0	693.4
45°	587.7	613.0	639.5	659.6	668.0
47.5°	552.8	581.3	610.9	633.1	639.5
50°	519.0	548.6	581.3	605.7	613.0
52.5°	483.0	514.8	551.7	577.1	586.6
55°	448.2	483.0	521.1	549.6	558.1
57.5°	414.3	450.3	491.5	520.0	529.5
60°	378.4	416.5	459.8	489.4	501.0
62.5°	344.6	383.7	430.2	459.8	470.4
65°	309.7	350.9	397.4	429.1	439.7
67.5°	274.8	318.2	364.7	399.5	408.0
70°	237.8	283.3	334.0	367.8	378.4
72.5°	204.0	249.4	302.3	337.2	347.7
75°	168.1	217.7	270.6	305.5	318.2
77.5°	137.4	187.1	239.9	276.9	286.4
80°	104.6	156.4	211.4	247.3	257.9
82.5°	76.1	129.0	185.0	220.9	231.5
85°	51.8	104.6	160.7	196.6	207.2
87.5°	31.7	84.6	138.5	174.4	185.0
90°	14.9	78.3	147.4	188.1	200.9
92.5°	39.5	77.9	141.3	184.4	195.0
95°	82.7	76.1	140.7	181.7	192.3
97.5°	140.0	145.4	135.6	176.6	188.4
100°	206.6	263.7	130.5	170.4	182.2
102.5°	282.5	327.3	171.9	163.0	175.9
105°	356.0	394.1	334.7	157.9	169.7
107.5°	433.0	465.7	526.5	375.5	232.3
110°	510.0	538.5	593.5	582.5	424.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	584.7	607.6	660.7	697.6	704.7
115°	657.1	676.8	725.3	762.4	775.5
117.5°	729.4	746.0	787.8	822.5	832.1
120°	794.8	810.6	849.0	882.6	890.0
122.5°	862.4	872.7	910.2	939.3	947.9
125°	922.1	931.4	966.7	991.2	1000.9
127.5°	982.7	990.9	1023.2	1047.9	1052.9
130°	1038.7	1046.9	1072.8	1097.4	1101.5
132.5°	1091.2	1100.5	1119.9	1143.6	1147.5
135°	1146.0	1152.0	1168.3	1190.8	1192.6
137.5°	1192.7	1201.0	1210.7	1233.5	1236.4
140°	1238.3	1245.3	1251.9	1272.5	1275.4
142.5°	1281.5	1287.3	1290.8	1308.0	1309.8
145°	1321.1	1328.2	1330.5	1341.3	1345.5
147.5°	1358.5	1364.3	1366.6	1372.2	1370.5
150°	1393.5	1397.0	1399.3	1401.6	1400.2
152.5°	1424.9	1426.1	1427.3	1431.9	1426.1
155°	1454.1	1451.8	1452.9	1458.8	1451.8
157.5°	1477.4	1477.4	1476.3	1483.2	1473.9
160°	1498.4	1497.2	1496.1	1503.1	1494.9
162.5°	1518.2	1514.7	1513.6	1521.7	1514.7
165°	1533.4	1529.9	1528.7	1538.1	1529.9
167.5°	1546.2	1541.6	1541.6	1550.9	1541.6
170°	1556.7	1552.0	1552.0	1561.4	1552.0
172.5°	1563.7	1557.9	1559.0	1568.4	1557.9
175°	1569.5	1563.7	1564.9	1573.0	1563.7
177.5°	1571.9	1566.0	1567.2	1576.5	1564.9
180°	1569.5	1569.5	1569.5	1569.5	1569.5

(END OF REPORT)