

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: P1031969

Luminaire Tested: S123DIW-B775D755UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031969
REPORT IS A COMBINATION OF REPORTS P992146 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D755UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

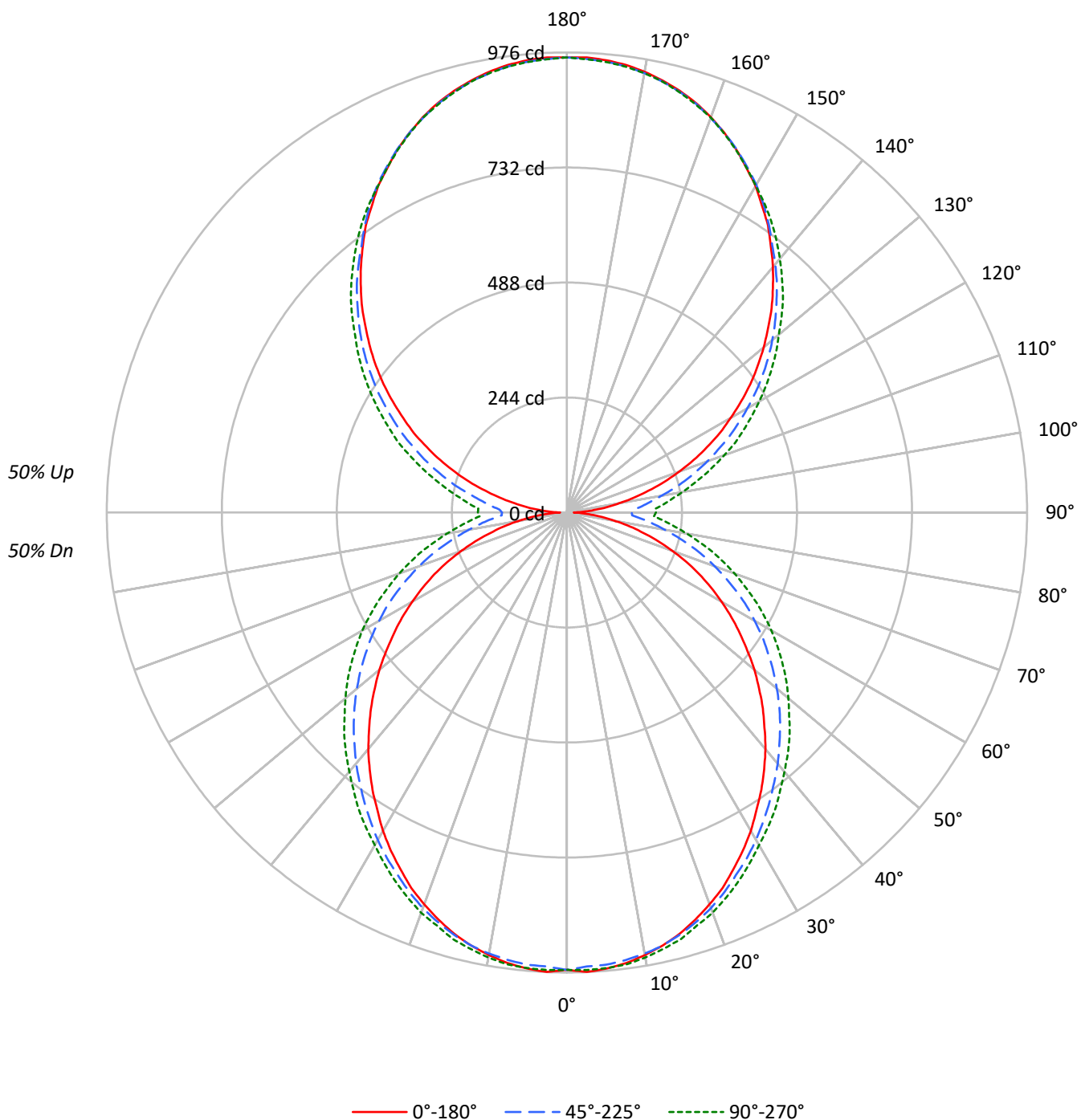
Lumens per Lamp: N/A
Luminaire Lumens: 5938.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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

TEST NUMBER: P1031969

CATALOG NUMBER: S123DIW-B775D755UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1031969

CATALOG NUMBER: S123DIW-B775D755UB35-4F0-XX-W2A-D1

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	57	56	48	47	46	46	46	40
2	88	80	73	68	81	74	68	63	62	58	54	52	48	46	42	40	38	38	38	33
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	32	32	32	27
4	73	62	53	47	67	57	50	44	48	43	38	40	36	32	33	29	27	27	27	23
5	67	55	46	40	61	51	43	38	43	37	33	36	31	28	29	26	23	23	23	20
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20	20	20	17
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	18	18	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	16	16	14
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14	14	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	16	13	13	13	11

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

TEST NUMBER: P1031969

CATALOG NUMBER: S123DIW-B775D755UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.6
10°-20°	262.4	4.4
20°-30°	392.4	6.6
30°-40°	468.5	7.9
40°-50°	490.2	8.3
50°-60°	460.0	7.7
60°-70°	384.2	6.5
70°-80°	274.7	4.6
80°-90°	165.5	2.8
90°-100°	164.9	2.8
100°-110°	263.6	4.4
110°-120°	370.6	6.2
120°-130°	450.0	7.6
130°-140°	486.4	8.2
140°-150°	468.2	7.9
150°-160°	391.9	6.6
160°-170°	260.9	4.4
170°-180°	91.4	1.5
0°-30°	746.8	12.6
0°-40°	1215.3	20.5
0°-60°	2165.5	36.5
0°-90°	2990.0	50.4
90°-120°	799.1	13.5
90°-150°	2203.8	37.1
90°-180°	2948.0	49.6
0°-180°	5938.0	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°	14	74	138	177	189	13
95°	56	103	161	197	207	58
105°	179	206	258	288	299	191
115°	328	343	379	405	413	324
125°	475	477	506	525	530	424
135°	614	618	628	644	648	473
145°	744	744	746	754	755	464
155°	850	850	851	854	849	391
165°	926	924	924	928	923	261
175°	963	960	960	965	959	92
180°	965	965	965	965	965	

TEST NUMBER: P1031969

CATALOG NUMBER: S123DIW-B775D755UB35-4F0-XX-W2A-D1

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°	14.5	73.8	137.6	176.6	188.7
92.5°	35.5	85.4	142.9	180.0	188.0
95°	56.3	102.9	160.7	196.6	207.2
97.5°	84.2	126.0	180.2	215.7	225.5
100°	112.6	151.0	203.5	236.4	248.5
102.5°	145.8	177.6	230.4	262.3	272.2
105°	179.1	205.9	258.3	287.9	298.9
107.5°	217.5	240.4	286.8	317.6	326.4
110°	252.8	273.4	317.1	347.6	354.6

TEST NUMBER: P1031969

CATALOG NUMBER: S123DIW-B775D755UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.7	306.2	346.4	376.6	386.1
115°	327.6	342.6	379.1	405.2	412.9
117.5°	366.3	375.4	409.9	435.2	441.5
120°	400.8	410.7	441.8	465.3	471.2
122.5°	438.0	443.1	474.4	495.4	500.6
125°	474.9	477.2	506.3	525.4	529.8
127.5°	509.8	513.2	538.1	554.8	559.1
130°	544.7	549.6	568.6	585.5	586.6
132.5°	578.5	584.5	598.9	614.1	617.7
135°	614.1	617.7	628.5	644.5	648.2
137.5°	646.7	649.5	659.2	672.3	675.3
140°	679.8	683.6	687.5	702.6	702.6
142.5°	710.9	713.6	715.1	728.1	729.6
145°	743.5	744.0	746.2	754.0	755.1
147.5°	770.5	773.5	775.8	779.0	778.7
150°	800.1	801.6	803.1	803.1	800.7
152.5°	824.3	826.6	827.4	828.9	825.1
155°	850.1	850.1	850.9	853.9	848.6
157.5°	872.1	871.4	872.1	875.2	870.6
160°	892.6	891.1	891.1	894.9	891.8
162.5°	910.8	908.5	909.3	913.1	907.8
165°	926.0	923.7	923.7	928.2	922.9
167.5°	938.9	935.8	936.6	941.1	936.6
170°	949.5	946.4	946.4	951.8	946.4
172.5°	957.8	954.8	954.8	959.3	954.0
175°	963.1	960.1	960.1	964.6	959.3
177.5°	966.2	963.1	963.1	967.7	962.4
180°	965.4	965.4	965.4	965.4	965.4

(END OF REPORT)