

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P995717

Luminaire Tested: DTR3-DS-4F0-065D-927-FLL-D

Issue Date: 1/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P995717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2501-325-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: DTR3-DS-4F0-065D-927-FLL-D
Description: Define Torrent LED Luminaire
Light Source: -
Ballast/Driver: -

Summary

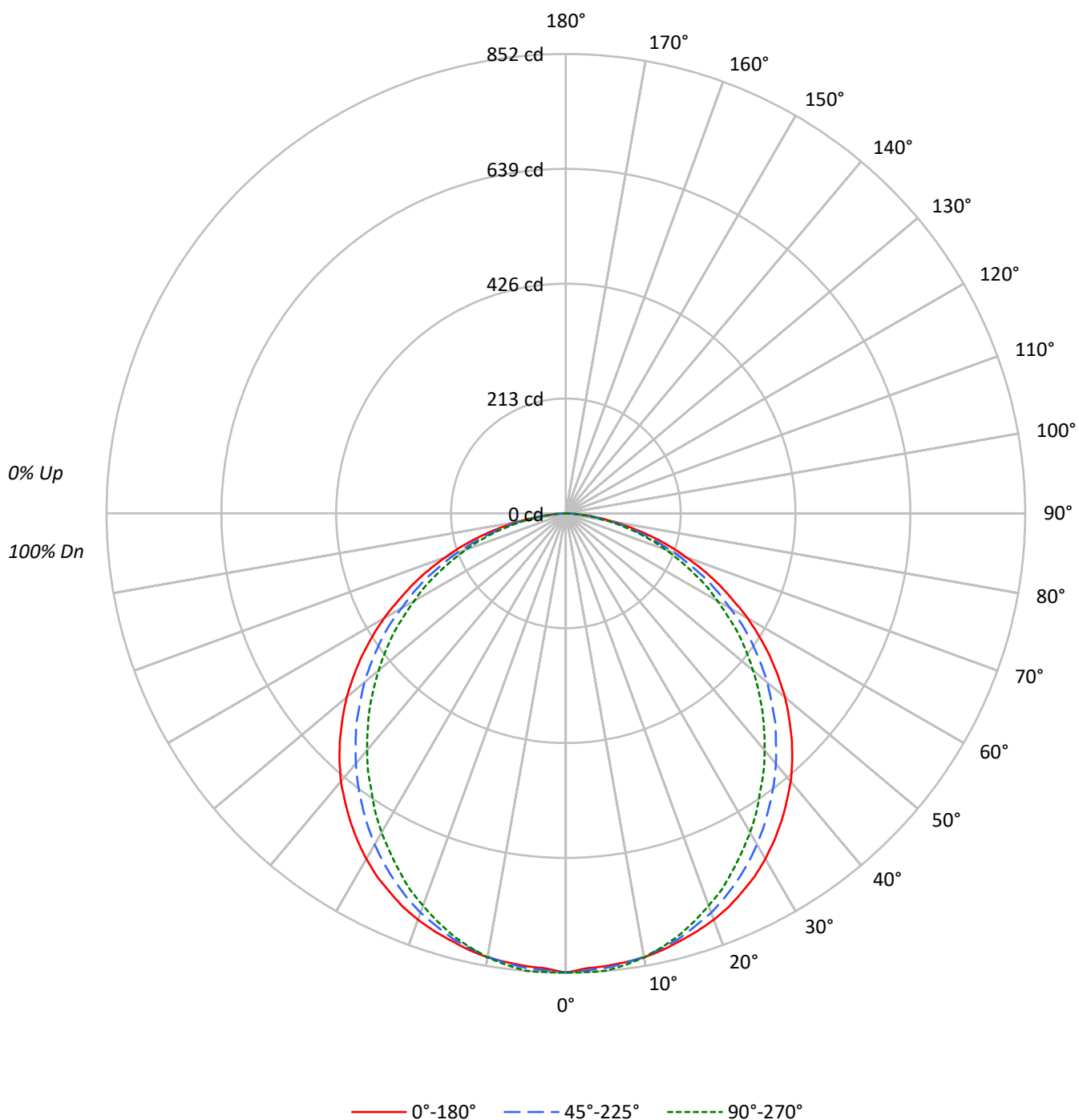
Lumens per Lamp: N/A
Luminaire Lumens: 2352.7 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.2 / 1.35
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 8.21
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9167	9167	9167
5°	9110	9146	9202
10°	9140	9121	9140
15°	9146	9089	9031
20°	9184	9027	8869
25°	9196	8931	8688
30°	9199	8813	8494
35°	9160	8665	8257
40°	9119	8516	8058
45°	9018	8363	7843
50°	8885	8167	7591
55°	8668	7927	7347
60°	8392	7578	6986
65°	8005	7261	6648
70°	7459	6754	6212
75°	6787	6068	5644
80°	5641	5108	4680
85°	3816	3816	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.4
10°-20°	230.4	9.8
20°-30°	347.1	14.8
30°-40°	414.2	17.6
40°-50°	425.1	18.1
50°-60°	379.0	16.1
60°-70°	282.9	12.0
70°-80°	156.3	6.6
80°-90°	37.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	658.1	28.0
0°-40°	1072.3	45.6
0°-60°	1876.5	79.8
0°-90°	2352.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	843	853	846	846	852	80
15°	821	828	816	809	810	232
25°	774	774	752	733	732	357
35°	697	689	659	637	628	436
45°	592	580	549	524	515	457
55°	462	450	422	400	392	412
65°	314	304	285	268	261	310
75°	163	156	146	139	136	172
85°	31	31	31	29	28	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.6	851.6	851.6	851.6	851.6
2.5°	844.8	855.1	848.2	849.9	851.6
5°	843.1	853.3	846.5	846.5	851.6
7.5°	839.7	849.9	841.4	839.7	844.8
10°	836.2	844.8	834.5	831.0	836.2
12.5°	829.3	836.2	825.9	820.7	824.1
15°	820.7	827.6	815.6	808.7	810.4
17.5°	812.2	817.3	801.8	793.3	793.3
20°	801.8	803.6	788.1	776.1	774.3
22.5°	789.9	791.6	770.9	755.5	755.5
25°	774.3	774.3	752.0	733.2	731.5
27.5°	758.9	755.5	731.5	712.6	707.4
30°	740.1	734.9	709.1	688.6	683.4
32.5°	719.4	712.6	685.1	662.8	657.6
35°	697.1	688.6	659.4	637.0	628.4
37.5°	673.0	662.8	633.6	609.6	602.7
40°	649.0	637.0	606.1	582.1	573.5
42.5°	621.5	609.6	576.9	552.9	544.3
45°	592.4	580.4	549.4	523.7	515.2
47.5°	561.5	549.4	516.9	492.8	484.2
50°	530.6	516.9	487.7	461.9	453.3
52.5°	496.2	484.2	455.0	431.0	422.4
55°	461.9	449.8	422.4	400.1	391.5
57.5°	425.8	415.6	389.8	365.8	357.2
60°	389.8	377.7	352.0	333.1	324.5
62.5°	350.3	340.0	319.3	300.5	295.3
65°	314.3	303.9	285.1	267.8	261.0
67.5°	276.4	267.8	249.0	235.3	228.4
70°	237.0	230.1	214.6	202.6	197.4
72.5°	200.9	192.3	180.3	170.0	166.5
75°	163.2	156.3	145.9	139.1	135.7
77.5°	125.3	120.2	113.3	108.2	104.8
80°	91.0	85.9	82.4	79.0	75.5
82.5°	58.4	55.0	55.0	51.5	49.8
85°	30.9	30.9	30.9	29.2	27.5
87.5°	10.3	12.1	12.1	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.80	21.43	20.17	21.75	22.06	18.86	20.49	19.22	20.80	21.11
	3H	21.58	23.05	21.96	23.38	23.74	20.57	22.04	20.95	22.37	22.73
	4H	22.22	23.61	22.62	23.96	24.33	21.19	22.58	21.59	22.93	23.30
	6H	22.65	23.93	23.06	24.30	24.69	21.61	22.89	22.02	23.26	23.65
	8H	22.76	23.99	23.18	24.38	24.77	21.72	22.95	22.14	23.33	23.73
	12H	22.82	23.99	23.25	24.37	24.80	21.78	22.95	22.21	23.34	23.76
4H	2H	20.33	21.71	20.72	22.06	22.44	19.58	20.96	19.97	21.31	21.69
	3H	22.32	23.48	22.73	23.88	24.28	21.49	22.65	21.90	23.05	23.45
	4H	23.09	24.14	23.52	24.55	24.99	22.23	23.27	22.66	23.69	24.12
	6H	23.63	24.55	24.09	24.99	25.45	22.75	23.67	23.20	24.11	24.56
	8H	23.78	24.64	24.24	25.08	25.55	22.90	23.75	23.36	24.20	24.66
	12H	23.87	24.64	24.35	25.12	25.59	22.99	23.76	23.47	24.23	24.70
8H	4H	23.33	24.18	23.79	24.63	25.09	22.56	23.41	23.02	23.86	24.32
	6H	23.97	24.68	24.46	25.17	25.64	23.19	23.90	23.68	24.39	24.86
	8H	24.17	24.81	24.68	25.31	25.80	23.39	24.03	23.90	24.53	25.02
	12H	24.31	24.87	24.82	25.36	25.92	23.53	24.10	24.04	24.59	25.15
12H	4H	23.34	24.11	23.82	24.59	25.06	22.59	23.36	23.07	23.83	24.30
	6H	23.99	24.63	24.50	25.14	25.63	23.24	23.88	23.75	24.38	24.87
	8H	24.24	24.81	24.75	25.30	25.86	23.49	24.05	24.00	24.54	25.11